## **SIEMENS**

Data sheet 3RV2411-0CA10



Circuit breaker size S00 for transformer protection A-release 0.18...0.25 A N-release 5.2 A screw terminal Standard switching capacity

product designation design of the product product type designation Size of the circuit-breaker size of ontactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state to the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state at AC in hot operating state binsulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value surge voltage resistance rated value surge voltage resistance rated value at C of the main contacts typical of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of uding operation of during storage of uding transport relative humidity during operation of uding storage of uding transport relative humidity during operation 10 95 %  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 rated value maximum at AC-3 rated value maximum at AC-3 rated value maximum at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value  operational current at AC-3 at 400 V rated value  operational current at AC-3 at 400 V rated value  0.25 A	product brand name	SIRIUS	
product type designation  General technical data size of the circuit-breaker Size of contactor can be combined company-specific product extension auxiliary switch Power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole Insulation voltage with degree of poliution 3 at AC rated value value surge voltage resistance rated value Shock resistance according to IEC 60068-2-27 shock resistance according to IEC 81346-2 of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical electrical endurance (switching cycles) typical plectrical endurance (switching cycles) typical plon 0000 electrical endurance (switching cycles)	product designation	Circuit breaker	
Size of the circuit-breaker   Size of the circuit-breaker   Size of the circuit-breaker   Size of contactor can be combined company-specific   Size of contactor can be combined contactor can be	design of the product	For transformer protection	
size of the circuit-breaker  size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) to 0000 electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical professor (substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-3 rated value maximum • operating frequency rated value operational current rated value	product type designation	3RV2	
size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state	General technical data		
product extension auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms  mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical lefectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Quustance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage of uring storage of during transport relative humidity during operation 10 +60 °C current-dependent overload release operating voltage rated value at AC-3e rated value maximum source operating frequency rated value operational current rated value	size of the circuit-breaker	S00	
power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27 25g / 11 ms  mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical letectrical endurance (switching cycles) typical 100 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C • 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 current-dependent overload release  operating voltage • at AC 3 rated value maximum 690 V operating frequency rated value operational current rated value	size of contactor can be combined company-specific	S00, S0	
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 get yet mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical preference code according to IEC 81346-2 Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during storage of during storage of during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 rated value maximum operating fequency rated value operational current of the current rated value operational current rated value operational current of the current rated value operational current rated value operational current of value operational current of the current rated value operational current of value operational current of value operational current of the current rated value operational current	product extension auxiliary switch	Yes	
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage -50 +80 °C of during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage arted value at AC-3e rated value maximum enverting for the conditions operating frequency rated value operational current of the curren	power loss [W] for rated value of the current		
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Question of the conditions  installation altitude at height above sea level maximum  ambient temperature  oduring operation  oduring storage  oduring transport  relative humidity during operation  mumber of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  orated value  at AC-3 rated value maximum  operational current rated value  operational current  of the KV  story 25g / 11 ms  100 000  25g / 11 ms  100 000  26g / 11 ms  100 000  200 00  200 00  200 00  200 00  200 maximum  200 m  2	<ul> <li>at AC in hot operating state</li> </ul>	5.5 W	
value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  lectrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oduring operation  oduring storage  oduring storage  oduring transport  relative humidity during operation  minimizer of poles for main current circuit  number of poles for main current of the current-dependent overload release  operating voltage  orated value  at AC-3 rated value maximum  operation frequency rated value  operational current  of the main current rated value  operational current rated value  operational current  of NV  shock resistance according to IEC 60088-2-27  25g / 11 ms  100 000  6 kV  source   100 000  000  000  000  000  000  000	at AC in hot operating state per pole	1.8 W	
shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage of during transport relative humidity during operation  mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3 rated value maximum operational current rated value operational current		690 V	
mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical electrical endurance (switching cycles) typical 100 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-3 rated value maximum • operating frequency rated value operational current	surge voltage resistance rated value	6 kV	
of the main contacts typical     of auxiliary contacts typical     electrical endurance (switching cycles) typical     electrical endurance (switching cycles) typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)      Ambient conditions     installation altitude at height above sea level maximum     ambient temperature     ouring operation     ouring storage     ouring storage     ouring transport     relative humidity during operation      Main circuit     number of poles for main current circuit     adjustable current response value current of the current-dependent overload release     operating voltage	shock resistance according to IEC 60068-2-27	25g / 11 ms	
of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature     ouring operation     ouring storage     ouring transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage     rated value     at AC-3 rated value maximum electrical endurance (switching cycles) typical 100 000  100 000	mechanical service life (switching cycles)		
electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operations current rated value operational current	<ul> <li>of the main contacts typical</li> </ul>	100 000	
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum  operating frequency rated value  operational current  10/01/2009  - 20 +60 °C  - 20 +60 °C  - 50 +80 °C	of auxiliary contacts typical	100 000	
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operational current rated value  operational current	electrical endurance (switching cycles) typical	100 000	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operational current rated value  operational current rated value  operational current rated value  0.25 A  operational current rated value  0.25 A	reference code according to IEC 81346-2	Q	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current rated value  operational current rated value  operational current  2 0.00 m  -20 +60 °C  -50 +80 °C  -60	Substance Prohibitance (Date)	10/01/2009	
ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • rated value maximum  690 V  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  0.25 A	Ambient conditions		
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>so +80 °C</li> <li>telative humidity during operation</li> <li>mumber of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>at AC-3e rated value</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>0.25 A</li> </ul>	installation altitude at height above sea level maximum	2 000 m	
<ul> <li>during storage</li> <li>during transport</li> <li>50 +80 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>0.25 A</li> </ul>	ambient temperature		
<ul> <li>◆ during transport</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> <li>• operating frequency rated value</li> <li>operational current rated value</li> <li>0.18 0.25 A</li> </ul> 690 V <ul> <li>• at AC-3 rated value maximum</li> <li>690 V</li> </ul> operational current rated value <ul> <li>0.25 A</li> </ul> operational current <ul> <li>-50 60 Hz</li> </ul> operational current <ul> <li>0.25 A</li> </ul>	<ul> <li>during operation</li> </ul>	-20 +60 °C	
relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  0.25 A  operational current	during storage	-50 +80 °C	
Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • rated value maximum  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  0.25 A	during transport	-50 +80 °C	
number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current  3  0.18 0.25 A  0.25 A	relative humidity during operation	10 95 %	
adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current	Main circuit		
current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  0.25 A	number of poles for main current circuit	3	
<ul> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>		0.18 0.25 A	
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>	operating voltage		
<ul> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>0.25 A</li> </ul>	• rated value	20 690 V	
operating frequency rated value 50 60 Hz operational current rated value 0.25 A operational current	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
operational current rated value 0.25 A operational current	at AC-3e rated value maximum	690 V	
operational current	operating frequency rated value	50 60 Hz	
	operational current rated value	0.25 A	
• at AC-3 at 400 V rated value 0.25 A	operational current		
	at AC-3 at 400 V rated value	0.25 A	

at AC-3e at 400 V rated value	0.25 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.1 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
•	No
ground fault detection	No Van
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	100 kA
breaking capacity operating short-circuit current (lcs)	
at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	5.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.25 A
• at 600 V rated value	0.25 A
	0.20 N
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm

— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— 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
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (18 14), 2x 12
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
B10 value	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
T1 value for proof test interval or service life according to	10 y
IEC 61508	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	
General Product Approval	



Confirmation





<u>KC</u>



**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

**Special Test Certific**ate





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

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=3RV2411-0CA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0CA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0CA10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-0CA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0CA10/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0CA10&objecttype=14&gridview=view1

last modified:

6/25/2022

