SIEMENS

Data sheet 3RV2411-1BA10



Circuit breaker size S00 for transformer protection A-release 1.4...2 A N release 42 A screw terminal Standard switching capacity

product designation design of the product product type designation 3RV2 General technical data size of 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 per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value of the main contacts typical electrical endurance (switching cycles) of the main 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 of utring operation of utring storage of utring 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 requency rated value at AC-3 arted value maximum e) at AC-3 arted value maximum e) at AC-3 arted value operational current of tack and a 400 V rated value operational current of tack and a 400 V rated value operational current of value of AC-3 arted value operational current of AC-3 arted value operational current of value of AC-3 arted value operational current of AC-3 arted value operational current of AC-3 arted value operational current of AC-3 arted value	product brand name	SIRIUS
Seneral technical data	product designation	Circuit breaker
Size of the circuit-breaker S00	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 • 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) 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 operation • 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 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 • 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 IIfe (switching cycles) • of the main contacts typical • of auxiliary contacts typical • 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 • during operation • during storage • during transport relative humidity during operation 1095 % Main circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value at AC-3 rated value maximum en at AC-3 rated value maximum en at AC-3 rated value maximum en operation accurrent rated value operational current	size of the circuit-breaker	S00
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at AC in hot operating state per pole 2.4 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 690 V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) of the main contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (Date) 10/01/2009 electrical endurance	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 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical lou 000 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 storage of during storage of during transport relative humidity during operation Main circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3e rated value maximum operational current rated value operational current operational current rated value operational current of the Canada AC-3e rated value operational current rated value operational current of the Canada AC-3e rated value operational current rated value operational current rated value operational current rated value operational current of the Canada AC-3e rated value operational current rated value operational current rated value operational current rated value operational current of the Canada AC-3e rated value operational current of the Canada AC-3e rated value operational current rated value operational current of the Canada AC-3e rated value operational current of the Canada AC-3e rated value operational current rated value operational current of the Canada AC-3e rated value operational current of the C	power loss [W] for rated value of the current	
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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 lelectrical 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 • during operation • during storage • during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3e rated value maximum • at AC-3e rated value maximum operational current operational current rated value operational current rated value operational current 25g / 11 ms 100 000 26g / 110 000 000 000 000 000 000 000	at AC in hot operating state per pole	2.4 W
shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 shock resistance service life (switching cycles) of auxiliary contacts typical lou 000 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 oluring operation during storage oluring transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage operating voltage at AC-3 rated value maximum et AC-3e rated value maximum operating frequency rated value operational current 100 000 10		690 V
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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 ouring operation during storage during transport relative humidity during operation Adin 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 eat AC-3 rated value maximum operational current rated value 100 0000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 1	mechanical service life (switching cycles)	
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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 • rated value maximum • at AC-3 rated value maximum operating frequency rated value operational current rated value operational current rated value 2 A operational current rated value 2 A	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 • 690 V operating frequency rated value operational current rated value 2 A operational current rated value 2 A	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 20 690 V operational current rated value 20 690 V operational current rated value 20 690 V	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • 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 operating frequency rated value operational current rated value operational current rated value operational current 2 0 00 m -20 +60 °C -50 +80 °C -50	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 • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current rated value 2 A operational current rated value 2 A operational current	Ambient conditions	
 during operation during storage during transport storage telative 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-3e rated value maximum at AC-3e rated value the AC-3e rated value<!--</th--><th>installation altitude at height above sea level maximum</th><th>2 000 m</th>	installation altitude at height above sea level maximum	2 000 m
 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 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 2 A 	ambient temperature	
 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 operating frequency rated value operating frequency rated value operational current rated value 2 A 	 during operation 	-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 2 A operational current	during storage	-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 2 A operational current	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 2 A operational current	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 1.4 2 A 20 690 V 690 V 690 V 20 690 V	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 20 690 V 690 V 50 60 Hz operational current rated value 2 A	number of poles for main current circuit	3
 rated value at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 		1.4 2 A
 at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 2 A operational current	operating voltage	
 at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 2 A	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 2 A operational current	 at AC-3 rated value maximum 	690 V
operational current rated value 2 A operational current	 at AC-3e rated value maximum 	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	2 A
• at AC-3 at 400 V rated value 2 A	operational current	
	• at AC-3 at 400 V rated value	2 A

at AC 2a at 400 V rated value	0.4
at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.8 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
at AC-3 maximum	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	N-
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (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	10 kA
breaking capacity operating short-circuit current (lcs) at AC	
• at 240 V rated value	100 kA
at 400 V rated value at 400 V rated value	100 kA
at 500 V rated value at 500 V rated value	
	100 kA
at 690 V rated value	10 kA
response value current of instantaneous short-circuit trip unit	42 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	2 A
at 600 V rated value	2 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.13 hp
• for 3-phase AC motor	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gL/gG 25 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	<u> </u>
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
iusteiling inetitou	according to DIN EN 60715

width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — backwards — at the side — forwards • for live parts at 690 V	97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm 50 mm 50 mm 50 mm 50 mm 0 mm 0 mm
depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — backwards — upwards — backwards — at the side — forwards	97 mm 30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 mm 50 mm 50 mm 50 mm 50 mm 50 mm
required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for grounded parts at 690 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — upwards — upwards — upwards — backwards — at the side — forwards	30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm 50 mm 50 mm 50 mm 0 mm 30 mm
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 for live parts at 500 V — downwards — upwards — at the side for grounded parts at 690 V — downwards — upwards — backwards — at the side — forwards 	30 mm 30 mm 9 mm 50 mm 0 mm 30 mm
 — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — backwards — at the side — forwards 	30 mm 9 mm 50 mm 50 mm 0 mm 30 mm
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 for grounded parts at 690 V downwards upwards backwards at the side forwards 	50 mm 50 mm 0 mm 30 mm
downwardsupwardsbackwardsat the sideforwards	50 mm 0 mm 30 mm
upwardsbackwardsat the sideforwards	50 mm 0 mm 30 mm
backwardsat the sideforwards	0 mm 30 mm
— at the side — forwards	30 mm
— forwards	
lor live parts at 090 v	0.111111
— downwards	50 mm
— upwards	50 mm
— upwards — 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
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
finely stranded with core end processing	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	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920	50 %
failure rate [FIT]	
with low demand rate according to SN 31920	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 y
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

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate Type Test Certificates/Test Report





Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2411-1BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA10

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

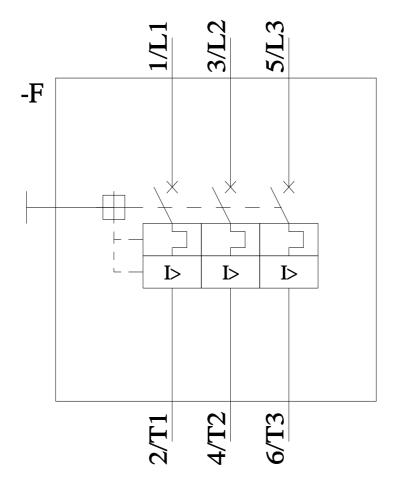
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1BA10\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1BA10&objecttype=14&gridview=view1



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