## **SIEMENS**

Data sheet 3RV2411-1FA15



Circuit breaker size S00 for transformer protection A-release 3.5...5 A N-release 104 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

Product designation   Circuit breaker   For transformer protection	product brand name	SIRIUS
Second technical data	product designation	Circuit breaker
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  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 (switching cycles)  • of with emain contacts (pyical)  • of auxiliary contacts typical  • of auxiliary contacts (witching cycles) (bypical)  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Amblent conditions  installation altitude at height above sea level maximum  amblent temperature  • during operation  • during storage  • during transport  relative humidity during operation  **Amblent current response value current of the current dependent overload release  operating voltage  • rated value  • at AC-3 areted value maximum  690 V  operational current rated value	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 allitude 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-3e rated value maximum • at AC-3e rated value maximum  operational current rated value operational current rated value operational current rated value  • at AC-3e rated value maximum  especial current 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 2.4 W  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 6 kV  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) 100 000  electrical endurance (switching cycles) 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 2 000 m  ambient temperature  of during operation -20 +60 °C  during storage -50 +80 °C  relative humidity during operation 10 95 %  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 690 V  • at AC-3 rated value of AC-3 rated valu	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 life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical  100 000  ### Account of the current of the current of the current of the current current circuit adjustable current response value current of the current-dependent overload release  operating voltage  • rated value at AC-3 rated value maximum electrical typical electrical endurance typical electrical endurance electrical en	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  at AC in hot operating state per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  surge voltage resistance rated value  shock resistance according to IEC 60088-2-27  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  leectrical endurance (switching cycles) typical 100 000  reference code according to IEC 81346-2  Quantification altitude at height above sea level maximum  ambient conditions  installation altitude at height above sea level maximum  ambient temperature  olduring operation  during storage  during transport  olduring transport  adjustable current response value current of the current-dependent overload release  operating voltage  arted value  arted value  at AC-3e rated value maximum  operational current  operational current rated value  operational current rated value  operational current rated value  operational current  operational current rated value  operational current rated value  operational current  5 A	size of contactor can be combined company-specific	S00, S0
at AC in hot operating state 7.25 W 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 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 (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 of during operation -20 +60 °C of during storage -50 +80 °C of during transport -50 +80 °C relative humidity during operation 10 95 %  Main circuit 3 adjustable current response value current of the current-dependent overload release operating voltage operating voltage - a tated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 5 A	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  oturing storage  of during storage  oturing 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-3e rated value maximum  operational current rated value  operational current rated value  operational current  5 A  overations at AC rated value  operational current rated value  operational current  of the current  ovalue is at AC and a content of the current of the current of the current ovalue current  operational current rated value  operational current rated value  operational current rated value  operational current  ovalue is at AC and a current rated value  operational current rated value  operational current rated value  operational current  ovalue is at AC and a current rated value  operational current  ovalue is at AC and a current rated value  operational current  ovalue is at AC and a current rated value  operational current  ovalue is at AC and a current rated value  operational current  ovalue is at AC and a current rated value  operational current  ovalue is at AC and a current  ovalue is at	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  Questional conditions  installation attitude at height above sea level maximum  ambient temperature  of during operation  of 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  or rated value  operational current  on 000  e 6k V  substance rated value  operational current  at AC 3 rated value  operational current  on 000  c 6k V  substance rowinary and on 000  operational current  on 000  o	<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
value     surge voltage resistance rated value     6 kV       shock resistance according to IEC 60068-2-27     25g / 11 ms       mechanical service life (switching cycles)     100 000       • of the main contacts typical     100 000       electrical endurance (switching cycles) typical     100 000       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     10/01/2009       installation altitude at height above sea level maximum     2 000 m       ambient temperature     0 during operation       • during storage     -50 +80 °C       • during storage     -50 +80 °C       • during transport     -50 +80 °C       relative humidity during operation     10 95 %       Main circuit     3       number of poles for main current circuit     3       adjustable current response value current of the current-dependent overload release     3.5 5 A       operating voltage     • rated value     20 690 V       • at AC-3 rated value maximum     690 V       • operational current rated value     5 A <tr< th=""><th>at AC in hot operating state per pole</th><th>2.4 W</th></tr<>	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  operating frequency rated value  operational current rated value  operational current rated value  operational current rated value  operational current rated value  5 0 60 Hz  operational current  100 000		690 V
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 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 operational current rated value	surge voltage resistance rated value	6 kV
of the main 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     ouring operation     ouring storage     oduring 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 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 endurent response value operational current rated value operational current  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 operational current rated value  operational current rated value  operational current rated value  5 A  operational current rated value  5 A  operational current rated value  5 A	<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  690 V  operating frequency rated value  operational current rated value  50 60 Hz  operational current rated value  50 60 Hz  operational current rated value  5 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  operating frequency rated value  operational current rated value  5 A  operational current rated value  5 A  operational current rated value	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  operating frequency rated value  operational current rated value  operational current rated value  5 A  operational current  2 0 00 m  2 0 +60 °C  -20 +80 °C  -50	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  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  5 A  operational current  2 0 00 m  -20 +60 °C  -50 +80 °C  -60 +80 °C	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  5 A  operational current rated value  5 A	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>so +80 °C</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>690 V</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>50 60 Hz</li> <li>operational current rated value</li> <li>5 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>eat AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>50 60 Hz</li> </ul> operational current <ul> <li>5 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>50 60 Hz</li> </ul> operational current <ul> <li>5 A</li> </ul>	<ul> <li>during operation</li> </ul>	-20 +60 °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  50 60 Hz  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  • at AC-3 rated value maximum  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  5 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  50 60 Hz  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  5 A	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  50 60 Hz  operational current	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>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> </ul>		3.5 5 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> </ul>	• rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 5 A operational current	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operational current rated value 5 A operational current	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	5 A
• at AC-3 at 400 V rated value 5 A	operational current	
	• at AC-3 at 400 V rated value	5 A

<ul> <li>at AC-3e at 400 V rated value</li> </ul>	5 A
operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
operating frequency	7.00
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	10 mi
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	transverse 1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 125 V	0.5 A
operational current of auxiliary contacts at DC-13	0.5 A
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	0.1074
product function	
•	No
ground fault detection     phase failure detection	Yes
phase failure detection  trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	tiletitiai
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 400 V rated value     at AC at 500 V rated value	100 kA
at AC at 500 V rated value     at AC at 690 V rated value	6 kA
breaking capacity operating short-circuit current (Ics)	U IV
at AC	
• at 240 V rated value	100 kA
at 400 V rated value	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip	104 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	5 A
at 600 V rated value	5 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	0.17 hp
— at 230 V rated value	0.5 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
<ul> <li>at 200/208 V rated value</li> </ul>	1 hp
<ul> <li>at 220/230 V rated value</li> </ul>	1 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	3 hp

Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link  Yes  magnetic	contact rating of auxiliary contacts according to UL	C300 / R300
product function short circuit protection design of the short-circuit protection of the ruse link • for short-circuit protection of the auxiliary swiftch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V  Installation mounting/dimensions  mounting position fastening method  score we and snap-on mounting onto 35 mm standard mounting raill according to DIN EN 60715  Primal width  45 mm depth  of or grounded parts at 400 V • downwards • at the side • or for two parts at 400 V • downwards • at the side • or for two parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • at the side • or for grounded parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for grounded parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for parts at 500 V • downwards • or for grounded parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or for two parts at 500 V • downwards • or		0000 / 10000
design of the short-circuit trip   magnetic   magneti		Vos
design of the fuse link		
• for short circuit protection of the auxiliary switch required design of the fuse ints for IT network for short-circuit protection of the main circuit  • at 400 V • at 500 V  Installation/ mounting/dimensions  mounting position  fastening method • according to DIN EN 60715  height  width • for fire parts at 400 V • downwards • upwards • at the side • for live parts at 400 V • downwards • at the side • for grounded parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • at the side • for fire parts at 500 V • downwards • upwards • for live parts at 500 V • downwards • for live parts at 500 V • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for au		magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit  • at 400 V • at 500 V  pulgG 32 A gulgG 32	for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
• at 400 V • at 500 V  puly G 32 A gulg G 3 A gulg G 32 A gulg G 3 A gulg G 32 A gulg G 3	design of the fuse link for IT network for short-circuit	II. ( +00 /1)
• at 500 V gUgG 32 A guUgG 25 A  Installation/ mounting/ dimensions  mounting position  fastening method  according to DIN EN 60715  97 mm  width 45 mm  depth  • for grounded parts at 400 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for grounded parts at 500 V  — downwards — at the side • for live parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — upwards — of live parts at 500 V  — downwards — of live parts at 500 V  — downwards — of fire grounded parts at 500 V  — of grounded parts	•	al /aG 32 A
• at 690 V Instaliation/mounting/dimensions mounting position  fastening method  according to DIN EN 60715  helight  width depth  • for grounded parts at 400 V  — downwards — at the side • for filve parts at 400 V  — downwards — upwards — upwards — at the side • for grounded parts at 500 V  — downwards — or at the side • for grounded parts at 500 V  — downwards — at the side • for journed parts at 500 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — upwards — or man in the side • for grounded parts at 500 V  — downwards — upwards — or man in the side • for live parts at 800 V  — downwards — upwards — or man in the side • for live parts at 690 V  — downwards — or man in the side • for grounded parts at 690 V  — downwards — or man in the side • for grounded parts at 690 V  — downwards — backwards — upwards • for live parts at 690 V  — downwards — the side • for grounded parts at 690 V  — downwards — the side • for man current circuit — the side — or man in contacts  • for main current circuit  • for auxillary and control circuit  arrangement of electrical connections • for main current circuit  • for auxillary and control circuit  arrangement of electrical connections • for main current circuit  • for auxillary and control circuit  arrangement of electrical connectors for main current  furcuit  type of connectable conductor cross-sections • for main contacts  • for main contacts  • soll do stranded — finely stranded with core end processing • at AIVS cables for main contacts  • zx (18 14), zx 12		
mounting position fastering method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height you must be supported by a control of DIN EN 60715  height depth for grounded parts at 400 V - downwards - upwards - at the side of for live parts at 400 V - downwards - upwards - at the side of for grounded parts at 500 V - downwards - upwards - at the side of or grounded parts at 500 V - downwards - at the side of for grounded parts at 500 V - downwards - at the side of for grounded parts at 500 V - downwards - at the side of for live parts at 500 V - downwards - upwards - at the side of for live parts at 500 V - downwards - upwards - at the side of for grounded parts at 500 V - downwards - upwards - upwards - upwards - or for grounded parts at 500 V - downwards - upwards - upwards - or for grounded parts at 500 V - downwards - upwards - or for grounded parts at 500 V - downwards - upwards - or grounded parts at 500 V - downwards - or grounded parts at 500 V - downwards - or grounded parts at 500 V - downwards - or grounded parts at 500 V - downwards - or grounded parts at 500 V - downwards - or grounded parts at 500 Nm - or gro		
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width 45 mm depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for for live parts at 500 V — downwards — 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 live parts at 500 V — downwards — the side • for live parts at 500 V — downwards — the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — the side • for grounded parts at 690 V — downwards — the side • for many the side • for ma		3-3
Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715   97 mm   45	-	any
Neight   97 mm   97 mm   96 mm   96 mm   96 mm   96 mm   97		screw and snap-on mounting onto 35 mm standard mounting rail
width   depth   97 mm   97 mm     97 mm     97 mm     97 mm     97 mm     97 mm     97 mm     97 mm     97 mm     97 mm     97 mm   97 mm   97 mm   97 mm   97 mm   97 mm   97 mm   98 mm	height	
depth		
Fequired spacing     For grounded paris at 400 V		97 mm
• for grounded parts at 400 V		
- downwards		
■ at the side   ■ for live parts at 400 V   □ downwards		30 mm
• for live parts at 400 V	— upwards	30 mm
	·	9 mm
- upwards - at the side ● for grounded parts at 500 V - downwards - upwards - at the side ● for live parts at 500 V - downwards - upwards - upwards - at the side ● for live parts at 500 V - downwards - at the side ● for grounded parts at 690 V - downwards - at the side ● for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - at the side - forwards - at the side - forwards - for live parts at 690 V - downwards - at the side - forwards - on mm - forwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - on mm - forwards - upwards - for live parts at 690 V - downwards - on mm - for main contacts - at the side - forwards - on mm - the side - forwards - on mm - the side - forwards - the	• for live parts at 400 V	
- at the side 9 mm  • for grounded parts at 500 V  - downwards 30 mm  - upwards 9 mm  • for live parts at 500 V  - downwards 30 mm  - upwards 50 mm  • for grounded parts at 690 V  - downwards 50 mm  - upwards 50 mm  - backwards 0 mm  - at the side 30 mm  - forwards 50 mm  - backwards 0 mm  - for live parts at 690 V  - downwards 50 mm  - backwards 0 mm  • for live parts at 690 V  - downwards 30 mm  - forwards 0 mm  • for main current circuit screw-type terminals  type of electrical connection  • for main current circuit screw-type terminals  trop and bottom  • for main current circuit screw-type terminals  trop and bottom  • for main contacts  - solid or stranded - finely stranded with core end processing  • at AWG cables for main contacts  - at AWG cables for main contacts  2x (0.75 2.5 mm²), 2x 4 mm²  - x 125 mm²), 2x (0.75 2.5 mm²)  - x 14 MyG cables for main contacts  - x 14 MyG cables for main contacts  - x 15 mm²), 2x (0.75 2.5 mm²)  - x 14 MyG cables for main contacts  - x 15 mm², 2x (0.75 2.5 mm²)  - x 14 MyG cables for main contacts  - x 15 mm², 2x (0.75 2.5 mm²)  - x 14 MyG cables for main contacts  - x 15 mm², 2x (0.75 2.5 mm²)  - x 17 mm², 2x (0.75 2.5 mm²)	— downwards	30 mm
• 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 — at the side • for grounded parts at 690 V  — downwards — backwards — backwards — at the side — forwards • for live parts at 690 V  — downwards — at the side — forwards • for live parts at 690 V  — downwards • for live parts at 690 V  — downwards — the side — forwards • for live parts at 690 V  — downwards — backwards — upwards — backwards — upwards — backwards — omm  — the side — forwards — omm  Connections/ Terminals  type of electrical connector • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  — at the side — finely stranded with core end processing • at AWG cables for main contacts  — 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.75 2.5 mm²), 2x (0.75 2.5 mm²)	— upwards	30 mm
downwards	— at the side	9 mm
upwards at the side for live parts at 500 V downwards upwards at the side of grounded parts at 690 V downwards upwards upwards upwards upwards upwards upwards backwards upwards of for live parts at 690 V downwards for live parts at 690 V downwards of live parts at 690 V downwards upwards for live parts at 690 V downwards upwards upwards upwards upwards at the side forwards upwards backwards at the side forwards to mm of mm of mm of main current circuit for auxiliary and control circuit for arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts 2x (18 1.5 mm²), 2x (0.75 2.5 mm²) at AWG cables for main contacts 2x (18 1.5 mm²), 2x (0.75 2.5 mm²)	• for grounded parts at 500 V	
- at the side	— downwards	30 mm
• for live parts at 500 V  - downwards - upwards - at the side 9 mm  • for grounded parts at 690 V  - downwards 50 mm - backwards - at the side 9 mm  • for live parts at 690 V  - downwards 50 mm - backwards 0 mm - forwards • for live parts at 690 V  - downwards 50 mm  • for live parts at 690 V  - downwards 50 mm  • for live parts at 690 V  - downwards 0 mm  • for wards 0 mm  - backwards 0 mm  - backwards 0 mm  - browards 0 mm  - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— upwards	30 mm
- downwards - upwards - upwards - at the side ● for grounded parts at 690 V - downwards - backwards - at the side - backwards - backwards - at the side - forwards - at the side - forwards - omm - forwards - for live parts at 690 V - downwards - upwards - upwards - backwards - upwards - backwards - upwards - backwards - omm - browards - omm - omm - forwards - omm - forwards - omm - forwards - at the side - forwards - omm - forwards - omm - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for main current circuit - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - stranded cat (2x (0.75 2.5 mm²), 2x 4 mm² - 2x (18 14), 2x 12	— at the side	9 mm
- upwards - at the side 9 mm  • for grounded parts at 690 V - downwards 50 mm - upwards - backwards - at the side 30 mm  - at the side 30 mm  - forwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards - upwards - backwards - upwards - backwards - at the side 30 mm  - at the side 30 mm  - on mm  - at the side 30 mm  - mm  - the side 30 mm  - forwards - the side 30 mm  - at the side 50 mm  - at the side 50 mm  - at the side 50 mm  - the side 50 mm  - the side 50 mm  - to mm  - the side 50 mm	● for live parts at 500 V	
- at the side  • for grounded parts at 690 V  - downwards  - upwards  - backwards  - at the side  - forwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  - backwards  - at the side  - forwards  0 mm  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • at AWG cables for main contacts  - sol AWG cables for main contacts  2	— downwards	30 mm
for grounded parts at 690 V         — downwards         — upwards         — backwards         — at the side         — for live parts at 690 V         — downwards         — upwards         — for live parts at 690 V         — downwards         — upwards         — upwards         — upwards         — backwards         — at the side         — backwards         — at the side         — forwards         — on mm         — at the side         — forwards         — on mm  Connections/ Terminals  type of electrical connection         — for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections         — for main contacts         — solid or stranded         — finely stranded with core end processing         — at AWG cables for main contacts         — at the side         — solid or stranded         — finely stranded with core end processing         — at the side         — solid or stranded         — finely stranded with core end processing         — at AWG cables for main contacts         — solid or stranded         — finely stranded with core end processing         — at AWG cables for main contacts	— upwards	30 mm
- downwards - upwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards - upwards - upwards - backwards - upwards - backwards - upwards - backwards - backwards - backwards - o mm - at the side - forwards - o mm - at the side - forwards - o mm - or main current circuit - for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - salk Williams - sommand - o mm -	— at the side	9 mm
- upwards - backwards - at the side - forwards - forwards - for live parts at 690 V - downwards - upwards - upwards - backwards - upwards - backwards - at the side - forwards - at the side - forwards - at the side - forwards - o mm  Connections/ Terminals  type of electrical connection - for main current circuit - for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - 2x (0.5 1.5 mm²), 2x 4 mm² - 2x (0.75 2.5 mm²) - at AWG cables for main contacts - 2x (18 14), 2x 12	• for grounded parts at 690 V	
- backwards - at the side - forwards  • for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - at the side - forwards - at the side - forwards - at the side - forwards - o mm  Connections/ Terminals  type of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  2 x (0.5 1.5 mm²), 2x 4 mm² 2 x (0.75 2.5 mm²) 2 x (18 14), 2x 12		50 mm
- backwards - at the side - forwards 0 mm  • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards 0 mm  - backwards - backwards - at the side - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  - at the side - 50 mm - 5	— upwards	50 mm
- forwards  • for live parts at 690 V  - downwards  - upwards  - backwards  - at the side  - forwards  0 mm   Connections/ Terminals   type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • at AWG cables for main contacts   0 mm  50 connectable connectors for main current circuit  50 p and bottom  50 connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • at AWG cables for main contacts  2x (0.75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		0 mm
<ul> <li>for live parts at 690 V         — downwards         — upwards         — backwards         — backwards         — at the side         — forwards         — forwards         — o mm          Connections/ Terminals          type of electrical connection         • for main current circuit         • for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         — at AWG cables for main contacts         — 2x (0.75 2,5 mm²), 2x 4 mm²         — 2x (0.75 2,5 mm²), 2x (0.75 2.5 mm²)         • at AWG cables for main contacts         — 2x (18 14), 2x 12</li> </ul>	— at the side	30 mm
- downwards - upwards - backwards - at the side - forwards  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  - bon mm  0 mm  0 mm  conmections/ Terminals  screw-type terminals  screw-type terminals  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.75 2,5 mm²), 2x 4 mm²  2x (0.75 2,5 mm²), 2x (0.75 2.5 mm²)  2x (18 14), 2x 12	— forwards	0 mm
- downwards - upwards - backwards - at the side - forwards  - forwards   Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  - bon mm  0 mm  comm 0 mm  crew-type terminals screw-type terminals Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.75 2,5 mm²), 2x (0.75 2.5 mm²)  2x (18 14), 2x 12	• for live parts at 690 V	
- backwards - at the side - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  0 mm 30 mm 30 mm 50 pand bottom 5		50 mm
- backwards - at the side - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  0 mm 30 mm 30 mm 50 mm 60 m	— upwards	50 mm
— forwards  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  0 mm  crew-type terminals  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— backwards	0 mm
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts    **Top and bottom**  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— at the side	30 mm
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (18 14), 2x 12	— forwards	0 mm
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  • at AWG cables for main contacts   Screw-type terminals  Top and bottom  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)	Connections/ Terminals	
<ul> <li>for main current circuit         <ul> <li>for auxiliary and control circuit</li> </ul> </li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>at AWG cables for main contacts</li> <li>screw-type terminals</li> <li>Top and bottom</li> <li>2x (0,75 2,5 mm²), 2x 4 mm²</li> </ul> <li>2x (0,75 2,5 mm²), 2x 4 mm²</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (18 14), 2x 12</li>		
<ul> <li>◆ for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>◆ for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>◆ at AWG cables for main contacts</li> <li>Screw-type terminals</li> <li>Top and bottom</li> <li>2x (0,75 2,5 mm²), 2x 4 mm²</li> <li>2x (0,75 2,5 mm²), 2x 4 mm²</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (18 14), 2x 12</li> </ul>		screw-type terminals
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections	<ul> <li>for auxiliary and control circuit</li> </ul>	
<ul> <li>for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 </li> </ul>	arrangement of electrical connectors for main current	
<ul> <li>for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 </li> </ul>	type of connectable conductor cross-sections	
— 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		
<ul> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (18 14), 2x 12</li> </ul>		2x (0,75 2,5 mm²), 2x 4 mm²
• at AWG cables for main contacts 2x (18 14), 2x 12		
for auxiliary contacts		

<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	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	
<ul> <li>for main contacts</li> </ul>	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	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 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
display version for switching status	Handle
Certificates/ approvals	

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## **General Product Approval**





Confirmation



<u>KC</u>



**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping



LRS







Confirmation

other

other

Railway



Confirmation

Vibration and Shock

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-1FA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1FA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA15

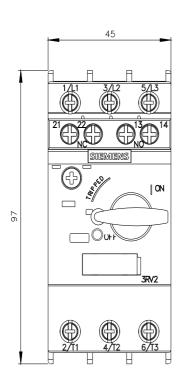
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2411-1FA15&lang=en

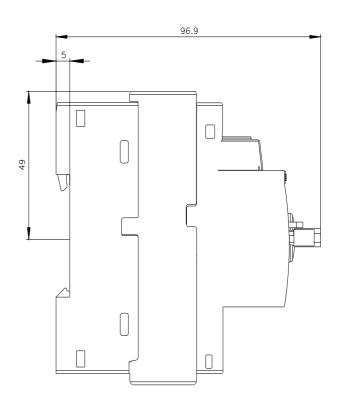
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1FA15&objecttype=14&gridview=view1





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6/25/2022