## SIEMENS

## Data sheet

## 3RV2011-1CA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.347 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Environmental footprint	
global warming potential [CO2 eq] total	74.698 kg
global warming potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during sales	0.134 kg
global warming potential [CO2 eq] during operation	72.7 kg
global warming potential [CO2 eq] after end of life	-0.116 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	

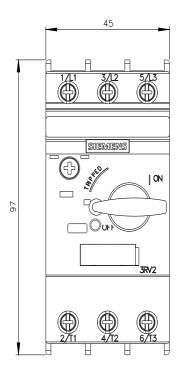
number of poles for main current circuit         3           adjustable current response value current of the current adjustable current response value current of the current of and value         1825 Å           enated value         500 V           • all ACS index value maximum         600 V           • all ACS index value maximum         600 V           operation current rested value         5060 kE           operation current rested value         256           • all ACS all 400 V relat value         256           • all ACS all 400 V relat value         256           • all ACS all 400 V relat value         060 kE           • all ACS all 400 V relat value         060 kE           • all ACS all 400 V relat value         060 kEV           • all ACS all 400 V relat value         060 kEV           • all ACS all 400 V relat value         060 kEV           • all ACS all 400 V relat value         160 kEV           • all ACS all 400 V relat value         060 kEV           • all ACS all 400 V relat value         160 kEV           • all ACS all 400 V relat value         160 kEV           • all ACS all 400 V relat value         160 kEV           • all ACS all 400 V relat value         160 kEV           • all ACS all 400 V relat value         160 kEV <th></th> <th></th>		
depending overlageImage: start of the start o	number of poles for main current circuit	3
special polonge	•	1.8 2.5 A
• rafaCs20.000 V• at ACS and value maximum600 Voperating frequency rated value60.00 HZoperating frequency rated value2.5.A• at ACS at AOV rised value2.5.A• at ACS at AOV rised value2.5.A• at ACS at AOV rised value0.4.W• at ACS are maximum1.5.W• at ACS at ADV rised value0.1.M• at ACS at ADV rised value0.1.M• at ACS at ADV rised value1.5.W• at ACS at ADV r		
• al AC3 aread value maximum90 Voperation frequency rated value60 - 60 Hzoperation a current rated value25 Aoperation a current rated value25 A• al AC3 al 400 V mated value0.4 kW• al AC3 maximum0.5 kW• al AC3 maximum0.7 kW• al AC3 maximum1.5 kW• al AC3 maximum1.5 kW• al AC3 maximum1.5 kW• al AC3 maximum15 kW• al AC3 maximum16 kW• al AC3 maximum16 kW• al AC3 maximum0.0 kA• al AC3 maximum0.0 kA• al AC3 maximum backets for auxiliary contacts0.0 kA• al AC3 al 40 V rated value0.0 k		20 690 V
end980 Voperating frequency rated value96000 hzoperational current rated value2.5 Aoperational current rated value2.5 Ao at A.C.3 at A.O.Y AT A.O		
operational current read value50 60 Hzoperational current read value25 A• al AC-3 al 400 V rated value25 A• al AC-3 al 400 V rated value25 Aoperating power-• al AC-3 al 400 V rated value0.4 KW- al 200 V rated value0.4 KW- al 420 V rated value1.5 KW- al 420 V rated value1.5 KWoperating frequency al 420 V rated value0- al 420 V rated value100 KA- al 420 V rated val		
operational current rade value25.Aoperational current rade value25.A• al A.C.3 at 400 V rated value0.4 kW- at 200 V rated value0.75 kW- at 200 V rated value0.4 kW- at 200 V rated value1.5 kW- at 200 V rated value1.5 kW- at 200 V rated value0.0- at 200 V r		
operational current         2.5 A           at AC.3 at 400 V rated value         2.5 A           ot AC.3 at 400 V rated value         2.5 A           operating power         3.5 A           - at 230 V rated value         0.4 KW           at 400 V rated value         0.7 KW           at 400 V rated value         0.7 KW           at 600 V rated value         0.7 KW           at 600 V rated value         0.7 KW		
• at AC-3 at 400 V rated value2.5 Aoparating power2.5 A• at AC-3 at 400 V rated value0.4 kW- at 200 V rated value0.75 kW- at 200 V rated value0.75 kW- at 800 V rated value1.5 kW• at AC-3 at 200 V rated value0.4 kW- at 800 V rated value0.4 kW- at 800 V rated value0.4 kW- at 800 V rated value0.75 kW• at AC-3 at 200 V rated value0.75 kW- at 800 V rated value0.80 k- at 800 V rated value0.80 k- at 800 V rated value100 kA- at 800	•	
• a i AG-3 a 400 V rated value25 Aoperating power a 1230 V rated value0.4 KV- a 1230 V rated value0.75 KV- a 1230 V rated value1.1 NV- a 1230 V rated value0.4 KV- a 1230 V rated value1.1 NV- a 1230 V rated value1.1 NV- a 1230 V rated value1.5 KV- a 1230 V rated value0.4 KV- a 1230 V rated value1.5 NV- a 1230 V rated value0.1 NV- a 1230 V rated valueNN- a 1230 V rated value10.0 KA- a 1230 V rated value10.0 KA <t< td=""><td>-</td><td>254</td></t<>	-	254
operating power		
a al AC-3		2.0 A
- at 200 V rade Value0.4 kW- at 800 V rade Value0.75 kW- at 800 V rade Value1.5 kW- at 800 V rade Value0.4 kW- at 800 V rade Value0.75 kW- at 800 V rade Value0.75 kW- at 800 V rade Value0.75 kW- at 800 V rade Value1.5 kW- at 800 V rade Value1.5 kW- at 800 V rade Value0.75 kW- properting forquering contacts0- properting forquering forquering contacts0- properting forquering forquering contacts100 kA- at 200 V rade Value100 kA- at 200 V rade Value2.5 A- at 800 V rade Value2.5 A- at 80		
		0.4 kW
• at AC-3e     AW       - at 230 V rated value     0.4 kW       - at 200 V rated value     0.75 kW       - at 500 V rated value     1.1 kW       - at 600 V rated value     1.5 kW       oparting frequency     I       - at AC-3e maximum     15 t/h       - at AC-3e maximum     15 t/h       - at AC-3e maximum     15 t/h       - at AC-3e maximum     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - at 200 V rated value     0 (ASS 10       - at 200 V rated value     100 kA       - at 400 V rated value     100 kA       - at AC at 200 V rated value     100 kA       - at AC at 200 V rated value     100 kA       - at AC at 600 V rated value     100 kA       - at AC at 600 V		
- at 230 V rated value     0.4 kW       - at 200 V rated value     0.75 kW       - at 630 V rated value     0.75 kW       - at 630 V rated value     1.5 kW       - at 630 V rated value     1.5 kW       - at 630 V rated value     1.5 kW       - at 640 rated value     1.5 kW       - at 640 rated value     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - number of NC contacts for auxiliary contacts     0       - ottocotacts for auxiliary contacts     0 <td></td> <td>VVX C.1</td>		VVX C.1
		0.4.144
- at 500 V rated value1.1 kW- at 600 V rated value1.5 kWoperating frequency at AC-3 maximum15 1/h- at AC-3 maximum15 1/h- at AC-3 maximum10- at AC-3 maximum0- at AC-3 maximum0- number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0- number of NC contacts for auxiliary contacts0- number of NC contacts for auxiliary contacts0- or cont find Id detectionNo- or cont find Id detectionVes S- or cont find Id detectionNo- et al AC 34 0V rated value100 kA- et AC 42 0V rated value100 kA- et AC 43 0V rated value100 kA- et AC 40 V rated value100 kA- et Ad 00 V rated value25 A- et Ad 00 V rated value25 A- et Ad 00 V rated value0.5 hp- et Ad 00 V rated value<		
operating frequency            • et A C-3 maximum         15 1/h           • et A C-3 maximum         15 1/h           Auxiliary circuit         0           number of NC contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           Protectives and monitoring functions         0           Protectives and monitoring functions         0           Protectives and monitoring functions         Ves           rig class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at A cat 500 V rated value         100 kA           • at 600 V rated value         100 kA		
• at AC-3 maximum     15 1/h       • at AC-3e maximum     15 1/h       AtACie maximum     15 1/h       AtACie maximum     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       Protective and monitoring functions     0       product function     Yes       • ground fault detection     Yes       trip class     CLASS 10       design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu)     100 kA       • at AC at 240 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated valu		1.5 KW
• at AC-3e maximum       15 1/h         Availiary concut       0         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         Protective and monitoring functions       0         Protective and monitoring functions       0         Protective and monitoring functions       Ves         • ground fault detection       Yes         • option fault detection       Yes         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at 400 V rated value       100 kA         • at 600 V rated value       2.5 A <td< td=""><td></td><td></td></td<>		
Auxillary circuit            number of NC contacts for auxillary contacts         0           number of NC contacts for auxillary contacts         0           number of CO contacts for auxillary contacts         0           number of NC contacts for auxillary contacts         0           reground fault detection         0           • ground fault detection         No           • phase failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)            • at AC at 240 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 900 V rated value         100 kA           • at 400 V rated value         10 kA           • at 600 V rated value         2.5 A           • at 400 V rated value         2.5 A           • at		
number of NC contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           ordective and monitoring functions         0           product function         0           optasse failure detection         Yes           trip class         CLASS 10           design of the overload release         thermail           maximum short-circuit current breaking capacity (Icu)         100 kA           • at AC at 240 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at 240 V rated value         100 kA           • at 600 V rated value         2.5 A           yielded mechanical performance [hp]         • at 600 V rated value           • at 600 V rated value         2.5 A		15 1/h
number of NO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           Protective and monitoring functions         0           product function         No           • ground fault detection         Yes           • trip class         CLASS 10           design of the overload release         thermail           maximum short-circuit current breaking capacity (Icu)         • at AC at 240 V rated value           • at AC at 2500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at 400 V rated value         100 kA           • at 500 V rated value         100 kA           • at 500 V rated value         100 kA           • at 500 V rated value         25 A           • at 600 V rated value         25 A           • at 600 V rated value         25 A           • at 600 V rated value         25 A	Auxiliary circuit	
number of CO contacts for auxiliary contacts         0           Protective and monitoring functions           product function         No           • ground fault detection         Yes           • phase failure detection         Yes           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         +           • at AC at 240 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at AC at 600 V rated value         100 kA           • at 40 V rated value         100 kA           • at 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 600 V rated value         0.0 kA           • at 600 V rated value         0.0 kA           • at 600 V rated value         2.5 A <td>number of NC contacts for auxiliary contacts</td> <td>0</td>	number of NC contacts for auxiliary contacts	0
Product function       No         oproduct function       No         • ground fault detection       Yes         trip class       CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu)       •         • at AC at 240 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 500 V rated value       100 kA         • at AC at 500 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       2.5 A         ylelded mechanical performance [hp]       •         • for single-phase AC motor       2.5 A         • at 200/208 V rated value       0.5 hp         - at 200/208 V rated value       0.5	number of NO contacts for auxiliary contacts	0
product function         No           • ground fault detection         No           • phase failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (icu)         • at AC at 240 V rated value           • at AC at 240 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 500 V rated value         100 kA           • at AC at 690 V rated value         100 kA           • at 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 690 V rated value         2.5 A           yleided mechanical performance [hp] <td>- -</td> <td>0</td>	- -	0
• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasehermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value100 kA• at AC at 600 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value2.5 A• at 600 V rated value2.5 A• at 600 V rated value0.17 hp• for 3-phase AC motor at 220/208 V rated value0.5 hp- at 220/208 V rated value0.5 hp- at 220/208 V rated value0.5 hp- at 220/208 V rated value10 hp- at 220/208 V rated value1.5 hp- at 257660 V rated value1.5 hp- at 257660 V rated value1.5 hp	Protective and monitoring functions	
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)• at AC at 240 V rated value100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value2.5 A• at 480 V rated value2.5 A• at 480 V rated value0.17 hp• for 3-phase AC motor	product function	
trip class     CLASS 10       design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu)     •       • at AC at 240 V rated value     100 kA       • at AC at 400 V rated value     100 kA       • at AC at 400 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at 690 V rated value     2.5 A       • at 600 V rated value     2.5 A       • at 600 V rated value     0.17 hp       • for 3.phase AC motor     -       - at 200 V rated value     0.5 hp       - at 200230 V rated value     0.5 hp <td><ul> <li>ground fault detection</li> </ul></td> <td>No</td>	<ul> <li>ground fault detection</li> </ul>	No
design of the overload release     thermal       maximum short-circuit current breaking capacity (Icu)     it AC at 240 V rated value       • at AC at 2400 V rated value     100 kA       • at AC at 400 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • at 240 V rated value     100 kA       • at 240 V rated value     100 kA       • at 400 V rated value     100 kA       • at 690 V rated value     2.5 A       yielded mechanical performance [hp]     2.5 A       • for single-phase AC motor     -       - at 200 V rated value     0.5 hp       - at 200/208 V rated value     0.5 hp       - at 200/208 V rated value     0.5 hp       - at 40/480 V rated value     1.5 hp	<ul> <li>phase failure detection</li> </ul>	Yes
maximum short-circuit current breaking capacity (Icu)I00 kA• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value100 kA• at AC at 600 V rated value100 kA• at 240 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value100 kA• at 600 V rated value10 kA• at 600 V rated value2.5 A• at 600 V rated value2.5 A• at 600 V rated value2.5 A• at 600 V rated value0.17 hp• at 200 V rated value0.5 hp at 200/208 V rated value1.5 hp• at 575/600 V rated value1.5 hp•	trip class	CLASS 10
• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 680 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 680 V rated value100 kA• at 680 V rated value10 kAresponse value current of instantaneous short-circuit trip unit33 AJUCSA ratingsJUCSA ratingsfull-load current (FLA) for 3-phase AC motor2.5 A• at 480 V rated value2.5 A• at 480 V rated value0.17 hp• for single-phase AC motor0.17 hp- at 230 V rated value0.5 hp- at 200/28 V rated value0.5 hp- at 200/28 V rated value0.5 hp- at 200/28 V rated value1.5 hp- at 460/48 V rated value1.5 hp- at 575/600 V rated value1.5 hp	design of the overload release	thermal
• 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         operating short-circuit current breaking capacity (ics) at AC       -         • at 240 V rated value       100 kA         • at 240 V rated value       100 kA         • at 400 V rated value       100 kA         • at 600 V rated value       2.5 A         • at 600 V rated value       2.5 A         • at 600 V rated value       2.5 A         • at 600 V rated value       0.17 hp         • for single-phase AC motor       -         - at 200/208 V rated value       0.5 hp         - at 200/208 V rated value       0.5 hp         - at 200/208 V rated value       0.5 hp         - at 60/480 V rated value       1 hp         - at 60/480 V rated value       1 hp         - at 60/480 V rated value       1 hp         - at 575/600 V rated value       1 hp	maximum short-circuit current breaking capacity (Icu)	
• at AC at 500 V rated value       100 kA         • at AC at 690 V rated value       10 kA         operating short-circuit current breaking capacity (Ics) at AC       100 kA         • at 240 V rated value       100 kA         • at 400 V rated value       100 kA         • at 400 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       100 kA         • at 600 V rated value       10 kA         response value current of instantaneous short-circuit trip unit       33 A         U/CSA ratings       2.5 A         full-load current (FLA) for 3-phase AC motor       2.5 A         • at 600 V rated value       2.5 A         • at 600 V rated value       0.17 hp         • for single-phase AC motor       -         - at 200/208 V rated value       0.5 hp         - at 200/208 V rated value       0.5 hp         - at 200/208 V rated value       0.5 hp         - at 60/480 V rated value       1.5 hp         - at 60/480 V rated value       1.5 hp	<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
• at AC at 690 V rated value10 kAoperating short-circuit current breaking capacity (ics) at ACI• at 240 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 690 V rated value10 kA• at 690 V rated value10 kA• at 690 V rated value33 A <b>U/CSA ratings</b> 2.5 A <b>full-load current (FLA) for 3-phase AC motor</b> 2.5 A• at 680 V rated value2.5 A• at 680 V rated value0.17 hp• for single-phase AC motor at 230 V rated value0.17 hp• at 230 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 460/480 V rated value1 hp- at 60/0480 V rated value1 hp- at 60/0480 V rated value1 hp- at 60/0480 V rated value1 hp- at 575/600	<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
operating short-circuit current breaking capacity (Ics) at AC         I00 kA           • 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         100 kA           • at 690 V rated value         10 kA           response value current of instantaneous short-circuit trip unit         33 A           JL/CSA ratings         Z.5 A           full-load current (FLA) for 3-phase AC motor         2.5 A           • at 600 V rated value         2.5 A           • at 600 V rated value         0.17 hp           • for single-phase AC motor         -           - at 230 V rated value         0.17 hp           • for 3-phase AC motor         -           - at 200/208 V rated value         0.5 hp           - at 200/208 V rated value         0.5 hp           - at 460/480 V rated value         1 hp           - at 460/480 V rated value         1 hp           - at 60/480 V rated value         1 hp           - at 60/0480 V rated value         1 hp           - at 675/600 V rated value         1 hp           - at 575/600 V rated value         1 hp           - at 575/600 V rated value         1 hp	• at AC at 500 V rated value	100 kA
• at 240 V rated value100 kA• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value10 kAresponse value current of instantaneous short-circuit trip unit33 AJL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value2.5 A• at 480 V rated value2.5 A• at 600 V rated value2.5 A• jelded mechanical performance [hp]• for single-phase AC motor- at 230 V rated value0.17 hp• for 3-phase AC motor- at 200/208 V rated value0.5 hp- at 200/208 V rated value0.5 hp- at 460/480 V rated value1 hp- at 460/480 V rated value1 hp- at 575/600 V rated value1.5 hp	• at AC at 690 V rated value	10 kA
• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value10 kAresponse value current of instantaneous short-circuit trip unit33 AJL/CSA ratings33 Afull-load current (FLA) for 3-phase AC motor2.5 A• at 480 V rated value2.5 A• at 600 V rated value2.5 A• at 600 V rated value0.17 hp• for single-phase AC motor0.17 hp- at 230 V rated value0.5 hp- at 200/208 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 460/480 V rated value1.5 hp- at 575/600 V rated value1.5 hp	operating short-circuit current breaking capacity (Ics) at AC	
• at 500 V rated value100 kA• at 690 V rated value10 kAresponse value current of instantaneous short-circuit trip unit33 AJL/CSA ratings33 Afull-load current (FLA) for 3-phase AC motor2.5 A• at 480 V rated value2.5 A• at 600 V rated value2.5 Ayielded mechanical performance [hp]0.17 hp• for single-phase AC motor0.17 hp- at 230 V rated value0.5 hp- at 200/208 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 460/480 V rated value1.5 hp- at 575/600 V rated value1.5 hp	at 240 V rated value	100 kA
• at 690 V rated value10 kAresponse value current of instantaneous short-circuit trip unit33 AJL/CSA ratings33 Afull-load current (FLA) for 3-phase AC motor2.5 A• at 480 V rated value2.5 A• at 600 V rated value2.5 A• at 600 V rated value0.17 hp• for single-phase AC motor0.17 hp• at 200/208 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 600/480 V rated value1 hp- at 575/600 V rated value1.5 hp	• at 400 V rated value	100 kA
response value current of instantaneous short-circuit trip unit 33 A JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 2.5 A • at 600 V rated value 2.5 A yielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value 0.17 hp • for 3-phase AC motor - at 200/208 V rated value 0.5 hp - at 220/230 V rated value 0.5 hp - at 460/480 V rated value 1 hp - at 575/600 V rated value 1.5 hp	• at 500 V rated value	100 kA
response value current of instantaneous short-circuit trip unit 33 A JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 2.5 A • at 600 V rated value 2.5 A yielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value 0.17 hp • for 3-phase AC motor - at 200/208 V rated value 0.5 hp - at 220/230 V rated value 0.5 hp - at 460/480 V rated value 1 hp - at 575/600 V rated value 1.5 hp	• at 690 V rated value	10 kA
JL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       2.5 A         • at 600 V rated value       2.5 A         yielded mechanical performance [hp]       2.5 A         • for single-phase AC motor       0.17 hp         - at 230 V rated value       0.17 hp         • for 3-phase AC motor       0.5 hp         - at 220/230 V rated value       0.5 hp         - at 460/480 V rated value       1 hp         - at 575/600 V rated value       1.5 hp		
full-load current (FLA) for 3-phase AC motor• at 480 V rated value2.5 A• at 600 V rated value2.5 Ayielded mechanical performance [hp]• for single-phase AC motor at 230 V rated value0.17 hp• for 3-phase AC motor at 200/208 V rated value0.5 hp at 220/230 V rated value0.5 hp at 460/480 V rated value1 hp at 575/600 V rated value1.5 hp		
• at 480 V rated value2.5 A• at 600 V rated value2.5 Ayielded mechanical performance [hp]2.5 A• for single-phase AC motor0.17 hp- at 230 V rated value0.17 hp• for 3-phase AC motor0.5 hp- at 200/208 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 460/480 V rated value1 hp- at 575/600 V rated value1.5 hp		
• at 600 V rated value       2.5 A         yielded mechanical performance [hp]       -         • for single-phase AC motor       -         - at 230 V rated value       0.17 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       0.5 hp         - at 220/230 V rated value       0.5 hp         - at 220/230 V rated value       1.5 hp         - at 460/480 V rated value       1.5 hp		2.5 A
yielded mechanical performance [hp]• for single-phase AC motor0.17 hp- at 230 V rated value0.17 hp• for 3-phase AC motor at 200/208 V rated value0.5 hp- at 220/230 V rated value0.5 hp- at 460/480 V rated value1 hp- at 575/600 V rated value1.5 hp		
for single-phase AC motor         — at 230 V rated value         0.17 hp         for 3-phase AC motor         — at 200/208 V rated value         0.5 hp         — at 220/230 V rated value         0.5 hp         — at 460/480 V rated value         1 hp         — at 575/600 V rated value         1.5 hp		
- at 230 V rated value     0.17 hp       • for 3-phase AC motor     0.5 hp       - at 200/208 V rated value     0.5 hp       - at 220/230 V rated value     0.5 hp       - at 460/480 V rated value     1 hp       - at 575/600 V rated value     1.5 hp		
for 3-phase AC motor		0 17 hp
		0.11 hp
	•	0.5 hp
— at 575/600 V rated value     1.5 hp       Short-circuit protection     1.5 hp		
Short-circuit protection		
		1.5 np
product function short circuit protection Yes		
	product function short circuit protection	Yes

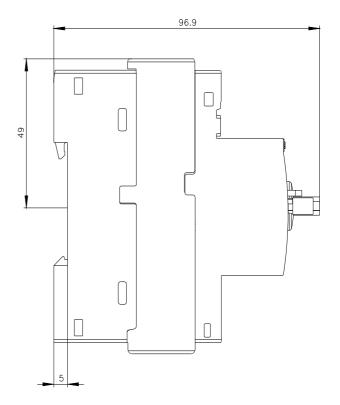
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 400 V	gL/gG 25 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<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	Top and bottom
circuit	
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)
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 14), 2x 12
tightening torque	
<ul> <li>for main 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	
for main contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	

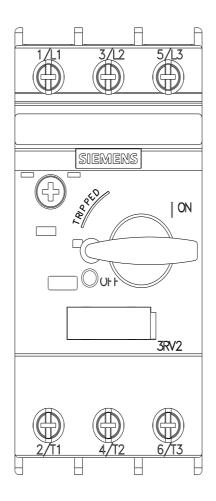
<ul> <li>safety-related swit</li> </ul>	ching on	No			
safety-related switching OFF		Yes			
service life maximum		10 a			
test wear-related service life necessary		Yes			
proportion of dangerou					
	ate according to SN 31				
	rate according to SN 3				
	B10 value with high demand rate according to SN 31920		00		
31920	failure rate [FIT] with low demand rate according to SN 31920		FIT		
ISO 13849					
device type according		necessarv Yes			
	overdimensioning according to ISO 13849-2 necessary				
IEC 61508					
safety device type acco	ording to IEC 61508-2	Тур	e A		
	to proof test interval or service life according to IEC		3		
Electrical Safety					
protection class IP on t	the front according to	IEC 60529	1		
touch protection on the			er-safe, for vertical contact	from the front	
Display					
		Line	odle		
display version for switch		Han			
Approvals Certificates General Product Appro					
	EG-Konf.			UL .	
General Product Ap- proval	For use in hazardou	s locations	Test Certificates		Marine / Shipping
EHC	IECEx	KEx ATEX	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					other
BUREAU VERITAS		Llovd's Register uts	PRS	RINA	Miscellaneous
other		Railway		Environment	
<u>Confirmation</u>		Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech
Environment					
Environmental Con- firmations					

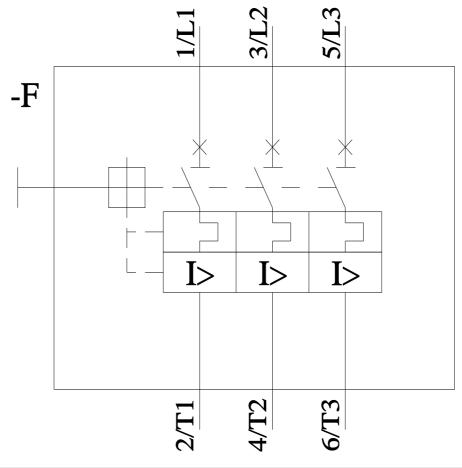
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1CA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1CA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1CA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/cs/ww/en/ps/3RV2011-1CA10&lang=en Characteristic: Tripping characteristics, I\*t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1CA10/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1CA10&objecttype=14&gridview=view1









11/6/2024 🖸

1/22/2025