## SIEMENS

## Data sheet

## 3RV2011-1AA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A Spring-type 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
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	
<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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1.1 1.6 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1.6 A
operational current	

• et AC.3e et 40.0 V rated value     1.6 A       operating power		
operating power        et ALC3 et ALC3 et al230 V Intel value et al200 V Intel value to 00 kA et al200 V Intel value to 100 kA et al200 V Intel value to 100 kA et al200 V Intel value to 00	at AC-3 at 400 V rated value	1.6 A
• a1230 V rated value             0.3 kW               - a1230 V rated value             0.3 kW               - a1500 V rated value             0.8 kW               - a1230 V rated value             0.3 kW               - at 500 V rated value             0.5 kW               - at 600 V rated value             0.5 kW               - at 600 V rated value             1.1 kW               operating frequency             •               • at AC-3 maximum             15 t/h               - at AC-3 maximum             15 t/h               - at AC-3 maximum             0               number of KO contacts for auxillary contacts             0               number of KO contacts for auxillary contacts             0               product function             Ves               trip class             CLASS 10               design of the overload rolates             100 kA               at AC at 240 V rated value		1.0 A
- at 860 V rated value 1.1 kW • at AC-3e - at 230 V rated value 0.3 kW - at 400 V rated value 0.5 kW • at 800 V rated value 0.8 kW - at 800 V rated value 1.1 kW operating frequency • at AC-3e maximum 15 1/h • at AC-3e maximum 15 1/h • at AC-3e maximum 15 1/h • at AC-3e maximum 0.5 1/h • at AC-3t 8for Auxiliary contacts 0.0 • number of NC contacts for auxiliary contacts 0.0 • protective and monitoring functions • ground fault detection No • ground fault detection Yes trip class • detail detection Yes • trip class • detail detection Yes • trip class • dat 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 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		
• at AC-3e		
-     at 230 V rated value     0.3 kW       -     at 400 V rated value     0.55 kW       -     at 600 V rated value     0.8 kW       -     at 600 V rated value     1.1 kW       operating frequency     •     at AC-3 e maximum       •     at AC-3 e maximum     15 t/h       •     at AC-3 e maximum     15 t/h       •     at AC-3 e maximum     15 t/h       •     at AC-3 e maximum     0       •     mumber of NC contacts for auxiliary contacts     0       •     number of CC contacts for auxiliary contacts     0       •     product function     ves       •     e ground fault detection     No       •     e ground fault detection     Yes       •     trip class     CLASS 10       design of the overload release     thermal       maximum short-circuit current breaking capacity (tcu)     •       •     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 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 val		1.1 kW
at 500 V rated value     0.8 kW       at 500 V rated value     1.1 kW       operating frequency     1.1 kW       • at AC-3 maximum     15 th       • at AC-3 maximum     0       • number of NC contacts for auxiliary contacts     0       • number of NC contacts for auxiliary contacts     0       • orgound fault detection     Ves       • orgound fault detection     Yes       • at AC at 400 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 600 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at AC at 600 V rated value     100 kA       • at 400 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V r		
− at 680 V rated value     1.1 kW       operating frequency     at AC-3e maximum       at AC-3e maximum     15 1/h       at AC-3e maximum     15 1/h       Auxiliary circuit     0       number of NC contacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     0       Product function     0       • ground fault detection     Ves       • ground fault detection     Ves       • at AC at 240 V rated value     100 kA       • at AC at 240 V rated value     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 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 AC at 500 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600		
operating frequency         is 1AC-3 maximum           is IAC-3 maximum         15 1/h           Auxiliary circuit         Inumber of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0         Inumber of NC contacts for auxiliary contacts           product function         0         0           e-ground fault detection         Ves         0           design of the overload release         thermal         0           maximum short-circuit current breaking capacity (lcu)         et AC at 400 V rated value         100 kA           et AC at 400 V rated value         100 kA         00 kA           et AC at 500 V rated value         100 kA         00 kA           et 4C at 400 V rated value         100 kA         00 kA           et 400 V rated value         100 kA         00 kA           et 400 V rated value         100 kA         00 kA           et 400 V rated value         100 kA         00 kA           et 400 V rated value         100 kA         00 kA           et 400 V rated value         100 kA <td></td> <td></td>		
• at AC-3 maximum       15 1/h         • at AC-3 maximum       15 1/h         • Axiliary circuit       •         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       0         Protective and monitoring functions       0         product function       •         • ground fault detection       Ves         • 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 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 AC at 600 V rated value       100 kA         • at 60 V rated value       100 kA		1.1 KW
• at AC-3e maximum15 1/hAuxiliary circuitImmber of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts0number of CC contacts for auxiliary contacts0output of CC contacts for auxiliary contacts0product functionNo• ground fault detectionNo• chase faulure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 240 V rated value100 kA• at AC at 240 V rated value100 kA• at AC at 560 V rated value100 kA• at AC at 660 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 90 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA		
Auxiliary circuit       0         number of NC contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       0         product function       0         e ground fault detection       No         • phase 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 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 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 400 V rated value       100 kA         • at 400 V rated value       100 kA         • at 240 V rated value       100 kA         • at 600 V rated value       1.6 A         • at 600 V rated value		
number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           Protective and monitoring functions         0           product function         No           • pinase 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 300 V rated value         100 kA           • at 240 V rated value         100 kA           • at 3500 V rated value         100 kA           • at 630 V rated value         100 kA           • at 480 V rated value         100 kA           • at 630 V rated value         100 kA           • at 630 V rated value         100 kA           • at 630 V rated value         1.6 A           • at 630 V rated value         1.6 A		15 1/h
number of NO contacts for auxiliary contacts         0           Protective and monitoring functions         0           Protective and monitoring functions         0           product function         No           • phase failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (lcu)         • at AC at 240 V rated value           • 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 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 60 V rated value         1.6 A           • at 60 V rated value         1.6 A           • at 400 V rated va		
number of CO contacts for auxiliary contacts     0       Product function     •       product function     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 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 4O v rated value     100 kA       • at 4O V rated value     100 kA       • at 4O V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     0.1 hp       • for 3-phase AC motor     1.6	· · · · · · · · · · · · · · · · · · ·	
Protective and monitoring functions         product function         • 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)       00 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 400 V rated value       100 kA         • at AC at 500 V rated value       100 kA         • at AC or value       100 kA         • at AC at 400 V rated value       100 kA         • at 600 V rated value       100 kA         • at 400 V rated value       1.6 A         yielded mechanical performance [hp]       • for single-phase AC motor         - at 420 V rated value       0.1 hp         • of or single-phase AC motor       0.8 hp		
product function         No           • 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 400 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 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 500 V rated value         100 kA           response value current of instantaneous short-circuit trip unit         21 A           UL/CSA ratings         -           full-load current (FLA) for 3-phase AC motor         1.6 A           • at 400 V rated value         1.6 A           • at 600 V rated value         0.1 hp           • for 3-phase AC motor         -           - at 4500 V		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)     00 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 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     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     0.1 hp       • for 3-phase AC motor     -       - at 230 V rated value     0.1 hp       • or 50/60 V rated value     1.6 A       - at 460/480 V rated value     0.8 hp       Short-circuit protection     Yes </td <td></td> <td></td>		
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)100 kA• at AC at 240 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 240 V rated value100 kA• at 240 V rated value100 kA• at 500 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value1.6 A• at 400 V rated value1.6 A• at 600 V rated value0.1 hp• for single-phase AC motor at 4804k0 V rated value0.8 hp• at 600 V rated value0.8 hp• bort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuitgL/gG 20 A• at 600 VyL/gG 16 A	product function	
trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 690 V rated value1.6 A• at 480 V rated value1.6 A• at 500 V rated value1.6 A• at 500 V rated value0.1 hp• at 575600 V rated value0.8 hpShort-circuit protectionYesdesign	<ul> <li>ground fault detection</li> </ul>	No
design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu)       i         • at AC at 24 0V trated 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 600 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       21 A         UL/CSA ratings	phase failure detection	Yes
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 240 V rated value     100 kA       • at AC at 290 V rated value     100 kA       • at AC at 290 V rated value     100 kA       • at 240 V rated value     100 kA       • at 400 V rated value     100 kA       • at 600 V rated value     100 kA       response value current of instantaneous short-circuit trip unit     21 A       UL/CSA ratings     Image: State S	trip class	CLASS 10
• at AC at 240 V rated value     100 kA       • at AC at 500 V rated value     100 kA       • at AC at 690 V rated value     100 kA       • operating short-circuit current breaking capacity (Ics) at AC     100 kA       • at 240 V rated value     100 kA       • at 400 V rated value     100 kA       • at 690 V rated value     100 kA       • at 600 V rated value     100 kA       • at 600 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 300 V rated value     0.1 hp       • for single-phase AC motor     1.6 A       • at 300 V rated value     0.1 hp       • at 60/480 V rated value     0.8 hp       Short-circuit protection     Yes       design of the short-circuit rp     magnetic       design of the fuse link for IT network	design of the overload release	thermal
• at AC at 400 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 690 V rated value1.6 A• at 480 V rated value1.6 A• at 600 V rated value1.6 A• at 600 V rated value1.6 A• at 200 V rated value0.1 hp• for 3-phase AC motor at 230 V rated value0.1 hp• for 3-phase AC motor at 40/480 V rated value0.8 hp• bort-circuit protectionYesdesign of the short-circuit rpmagneticdesign of the short-circuit tripmagnetic• at 500 VgL/gG 20 A• at 500 VgL/gG 16 A	maximum short-circuit current breaking capacity (Icu)	
• at AC at 500 V rated value       100 kA         • at AC at 690 V rated value       100 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 500 V rated value       100 kA         • at 690 V rated value       100 kA         • at 690 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       21 A         UU/CSA ratings       100 kA         full-load current (FLA) for 3-phase AC motor       1.6 A         • at 600 V rated value       0.1 hp         • for single-phase AC motor       -         - at 480/480 V rated value       0.1 hp         • for 3-phase AC motor       -         - at 480/480 V rated value       0.8 hp         Short-circuit protection       Yes         geign of the short-circuit trip       magnetic         design of the fuse link for T network for short-circuit protection       Yes         i at 500 V       gL/gG 20 A         • at 690 V       gL/gG 16 A	• at AC at 240 V rated value	100 kA
• at AC at 690 V rated value     100 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 500 V rated value     100 kA       • at 690 V rated value     100 kA       • at 690 V rated value     100 kA       • at 690 V rated value     100 kA       response value current of instantaneous short-circuit trip unit     21 A       UL/CSA ratings     1.6 A       full-load current (FLA) for 3-phase AC motor     1.6 A       • at 800 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 480 V rated value     1.6 A       • at 600 V rated value     1.6 A       • at 600 V rated value     0.1 hp       • for single-phase AC motor     0.1 hp       - at 450/480 V rated value     1 hp       - at 575/600 V rated value     0.8 hp       Short-circuit protection     Yes       gesign of the short-circuit trip     magnetic       design of the fuse link for IT network for short-circuit protection     Yes       • at 500 V     gL/gG 20 A       • at 690 V     gL/gG 16 A	• at AC at 400 V rated value	100 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 500 V rated value       100 kA         • at 690 V rated value       100 kA         • at 690 V rated value       100 kA         response value current of instantaneous short-circuit trip unit       21 A         UL/CSA ratings       1.6 A         full-load current (FLA) for 3-phase AC motor       1.6 A         • at 800 V rated value       1.6 A         • at 600 V rated value       1.6 A         • at 600 V rated value       1.6 A         vielded mechanical performance [hp]       0.1 hp         • for single-phase AC motor       0.1 hp         - at 480/480 V rated value       0.8 hp         Short-circuit protection       Yes         gesign of the short-circuit trip       magnetic         design of the fuse link for IT network for short-circuit protection       Yes         • at 500 V       gL/gG 20 A         • at 690 V       gL/gG 16 A	• at AC at 500 V rated value	100 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       100 kA         response value current of instantaneous short-circuit trip unit       21 A         UL/CSA ratings       11.6 A         • at 480 V rated value       1.6 A         • at 480 V rated value       1.6 A         • at 600 V rated value       1.6 A         • at 600 V rated value       0.1 hp         • for single-phase AC motor       - at 230 V rated value         • at 60/480 V rated value       0.1 hp         • for 3-phase AC motor       - at 450/480 V rated value         - at 575/600 V rated value       0.8 hp         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 fuse link for IT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT network for short-circuit protection of the fuse link for JT netwo	• at AC at 690 V rated value	100 kA
• at 400 V rated value100 kA• at 500 V rated value100 kA• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unit21 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value1.6 A• at 480 V rated value1.6 A• at 600 V rated value0.1 hp• for single-phase AC motor at 230 V rated value0.1 hp• for 3-phase AC motor at 460/480 V rated value0.1 hp• at 575/600 V rated value0.8 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripmagnetic• at 500 VgL/gG 20 A• at 690 VgL/gG 16 A	operating short-circuit current breaking capacity (Ics) at AC	
• at 500 V rated value100 kA• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unit21 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value1.6 A• at 600 V rated value1.6 A• at 600 V rated value0.1 hp• for single-phase AC motor0.1 hp• for 3-phase AC motor0.1 hp• at 460/480 V rated value0.1 hp• at 575/600 V rated value0.8 hpShort-circuit protectionproduct function short circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for TI network for short-circuit protection of the main circuitgL/gG 20 A• at 690 VgL/gG 16 A	• at 240 V rated value	100 kA
• at 690 V rated value100 kAresponse value current of instantaneous short-circuit trip unit21 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value1.6 A• at 600 V rated value1.6 A• at 600 V rated value0.1 hp• for single-phase AC motor0.1 hp• for 3-phase AC motor0.1 hp• at 400/80 V rated value1 hp• at 575/600 V rated value0.8 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the short-circuit tripgL/gG 20 A• at 600 VgL/gG 16 A	• at 400 V rated value	100 kA
response value current of instantaneous short-circuit trip unit       21 A         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>1.6 A</li> <li>at 600 V rated value</li> <li>1.6 A</li> </ul> i at 600 V rated value       1.6 A         yielded mechanical performance [hp]       1.6 A         i for single-phase AC motor       0.1 hp         - at 230 V rated value       0.1 hp         i for 3-phase AC motor       -         - at 460/480 V rated value       0.8 hp         Short-circuit protection       Yes         design of the short-circuit trip       magnetic         design of the short-circuit protection       Yes         i at 500 V       gL/gG 20 A         i at 690 V       gL/gG 16 A	• at 500 V rated value	
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       1.6 A         • at 600 V rated value       1.6 A         vielded mechanical performance [hp]       1.6 A         • for single-phase AC motor       0.1 hp         • for 3-phase AC motor       0.1 hp         • for 3-phase AC motor       0.1 hp         • for 3-phase AC motor       0.8 hp         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       gL/gG 20 A         • at 690 V       gL/gG 16 A	• at 690 V rated value	100 kA
full-load current (FLA) for 3-phase AC motor       1.6 A         • at 480 V rated value       1.6 A         • at 600 V rated value       1.6 A         yielded mechanical performance [hp]       1.6 A         • for single-phase AC motor       0.1 hp         - at 230 V rated value       0.1 hp         • for 3-phase AC motor       - at 460/480 V rated value         - at 460/480 V rated value       1 hp         - at 575/600 V rated value       0.8 hp         Short-circuit protection       Yes         design of the short-circuit protection       Yes         design of the short-circuit trip       magnetic         • at 500 V       gL/gG 20 A         • at 690 V       gL/gG 16 A	response value current of instantaneous short-circuit trip unit	21 A
• at 480 V rated value       1.6 A         • at 600 V rated value       1.6 A         yielded mechanical performance [hp]       .6 A         • for single-phase AC motor       0.1 hp         - at 230 V rated value       0.1 hp         • for 3-phase AC motor       .1 hp         - at 460/480 V rated value       1 hp         - at 460/480 V rated value       0.8 hp         Short-circuit protection       Yes         design of the short-circuit protection       Yes         design of the short-circuit trip       magnetic         • at 500 V       gL/gG 20 A         • at 690 V       gL/gG 16 A	UL/CSA ratings	
• at 600 V rated value         1.6 A           yielded mechanical performance [hp]         -           • for single-phase AC motor         0.1 hp           - at 230 V rated value         0.1 hp           • for 3-phase AC motor         -           - at 460/480 V rated value         1 hp           - at 575/600 V rated value         0.8 hp           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         gL/gG 20 A           • at 500 V         gL/gG 16 A	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]       • for single-phase AC motor         - at 230 V rated value       0.1 hp         • for 3-phase AC motor       - at 460/480 V rated value         - at 460/480 V rated value       1 hp         - at 575/600 V rated value       0.8 hp         Short-circuit protection       Yes         design of the short-circuit protection       Yes         design of the fuse link for IT network for short-circuit protection of the main circuit       gL/gG 20 A         • at 500 V       gL/gG 16 A	• at 480 V rated value	1.6 A
<ul> <li>for single-phase AC motor         <ul> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 460/480 V rated value</li> <li>thp</li> <li>at 575/600 V rated value</li> <li>bproduct function short circuit protection</li> </ul> </li> <li>Yes         <ul> <li>design of the short-circuit trip</li> <li>magnetic</li> <li>design of the fuse link for IT network for short-circuit</li> <li>protection of the main circuit</li> <li>at 500 V</li> <li>gL/gG 20 A</li> <li>gL/gG 16 A</li> </ul> </li> </ul>	• at 600 V rated value	1.6 A
at 230 V rated value0.1 hp• for 3-phase AC motor1 hp at 460/480 V rated value1 hp at 575/600 V rated value0.8 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 20 A• at 500 VgL/gG 16 A	yielded mechanical performance [hp]	
<ul> <li>for 3-phase AC motor         <ul> <li>at 460/480 V rated value</li> <li>hp</li> <li>at 575/600 V rated value</li> <li>0.8 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>Yes</li> <li>design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>design of the fuse link for IT network for short-circuit protection of the main circuit</li> <li>at 500 V</li> <li>at 500 V</li> <li>gL/gG 20 A</li> <li>at 690 V</li> <li>gL/gG 16 A</li> </ul>	<ul> <li>for single-phase AC motor</li> </ul>	
at 460/480 V rated value1 hp at 575/600 V rated value0.8 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 20 A• at 500 VgL/gG 16 A	— at 230 V rated value	0.1 hp
— at 575/600 V rated value       0.8 hp         Short-circuit protection       Ves         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       gL/gG 20 A         • at 500 V       gL/gG 16 A	• for 3-phase AC motor	
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       eat 500 V         eat 500 V       gL/gG 20 A         eat 690 V       gL/gG 16 A	— at 460/480 V rated value	1 hp
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     gL/gG 20 A       • at 500 V     gL/gG 16 A	— at 575/600 V rated value	0.8 hp
design of the short-circuit trip     magnetic       design of the fuse link for IT network for short-circuit     protection of the main circuit       • at 500 V     gL/gG 20 A       • at 690 V     gL/gG 16 A	Short-circuit protection	
design of the fuse link for IT network for short-circuit protection of the main circuit     gL/gG 20 A       • at 500 V     gL/gG 16 A	product function short circuit protection	Yes
protection of the main circuit <ul> <li>at 500 V</li> <li>gL/gG 20 A</li> <li>at 690 V</li> <li>gL/gG 16 A</li> </ul>	design of the short-circuit trip	magnetic
• at 690 V gL/gG 16 A		
	• at 500 V	gL/gG 20 A
	• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	Installation/ mounting/ dimensions	
mounting position any	mounting position	any
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height 106 mm	height	106 mm
width 45 mm	width	45 mm
depth 97 mm	depth	97 mm
required spacing	required spacing	

• with side by side mounting at the side	
<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
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	0 mm
- downwards	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
onnections/ Terminals	
type of electrical connection	anring loaded terminals
for main current circuit arrangement of electrical connectors for main current	spring-loaded terminals
circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )
· · · · · · · · · · · · · · · · · · ·	28 (0.5 2.5 mm)
for AWG cables for main contacts	2x (20 12)
for AWG cables for main contacts	
for AWG cables for main contacts design of screwdriver shaft	2x (20 12)
for AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip	2x (20 12) Diameter 3 mm
for AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip afety related data	2x (20 12) Diameter 3 mm
for AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip afety related data B10 value	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data B10 value      with high demand rate according to SN 31920	2x (20 12) Diameter 3 mm
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920  proportion of dangerous failures	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920  proportion of dangerous failures     with low demand rate according to SN 31920	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 %
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data B10 value      with high demand rate according to SN 31920 proportion of dangerous failures      with low demand rate according to SN 31920      with high demand rate according to SN 31920	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data B10 value     with high demand rate according to SN 31920 proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     failure rate [FIT]	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 %
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920 proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  failure rate [FIT]     with low demand rate according to SN 31920	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 %
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920 proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920 proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a
for AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip afety related data  B10 value     with high demand rate according to SN 31920  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920  failure rate [FIT]     with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529	2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20

	<u>Confirmation</u>	(UL)	<u>KC</u>	EHC	IECEx
For use in hazard- ous locations	Declaration of Conformit	у	Test Certificates		Marine / Shipping
K ATEX	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					other
BUREAU VERITAS		Llovd's Register uis	PRS	RINA	<u>Confirmation</u>
other	Railway				
	Vibration and Shock	Confirmation			

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

- Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
- 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=3RV2011-1AA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1AA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA20

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

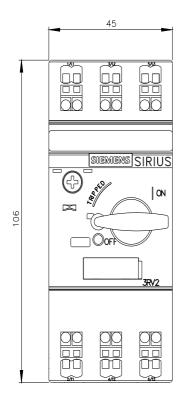
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1AA20&lang=en

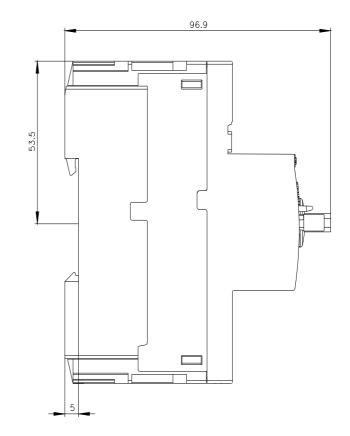
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

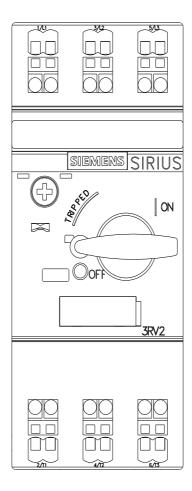
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA20/char

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

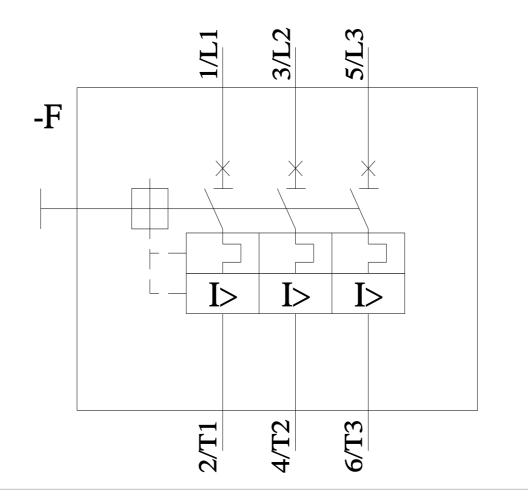
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1AA20&objecttype=14&gridview=view1







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