## **SIEMENS**

Data sheet 3RV2111-1FA10





Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 3.5...5 A N release 65 A screw terminal Standard switching capacity



product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection with overload relay function
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
of auxiliary contacts typical	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
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	3.5 5 A
operating voltage	
operating voltage  ● rated value	20 690 V
	20 690 V 690 V
• rated value	

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]  • for single-phase AC motor  — at 110/120 V rated value 0.17 hp — at 230 V rated value 0.5 hp  • for 3-phase AC motor  — at 200/208 V rated value 1 hp — at 220/230 V rated value 1 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300	operational current rated value	5 A
### ARC-3 at 400 V rated value	•	
### AC-3e at AC-3 v rated value  poperating power  ### AC 230 V rated value  — at 4 000 V rated value  — at 4 000 V rated value  — at 500 V rated value  — at 500 V rated value  — at 500 V rated value  — at 230 V rated value  — at 230 V rated value  — at 230 V rated value  — at 200 V rated value  — at 500 V rated value  — at 600 v rated valu	-	5 A
Operating power		
# all AC-3		
		1.1 kW
- at 500 V rated value		
at 809 V rated value		
at 400 V rated value		1 1 kW
operating frequency		
Operating frequency		
		15 1/h
Auxiliary circuit         design of the auxiliary switch         laterally           number of NO contacts for auxiliary contacts         0           number of NO contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         • at 24 V           • at 230 V         1.5 A           operational current of auxiliary contacts at DC-13         • at 22 V           • at 24 V         1.5 A           • all 24 V         1.5 A           • at 25 V         1.5 A           operational current of auxiliary contacts at DC-13         • at 24 V           • all 24 V         1.5 A           operational current of product functions         Ves           • product function         No           • plasse failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (Icu)         100 kA           • at AC at 400 V rated value         100 kA           • at AC at 550V rated value         100 kA           • at AC at 550V rated value         100 kA           • at 400 V rated value         100 kA           • at 500 V rated value         4 kA           • at 500 V rated value <td< td=""><td></td><td></td></td<>		
design of the auxiliary switch number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V • at 240 V • at 220 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V  operational current of auxiliary contacts at DC-13 • at 24 V  operational current of auxiliary contacts at DC-13 • at 24 V  response value current functions  product function • ground fault detection • ground fault detection • product function • phase failure detection • yes  design of the overload release  thermal  maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 600 V rated		
number of NC contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           ounder of CO contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         1.5 A           • at 24 V         1.5 A           operational current of auxiliary contacts at DC-13         1 A           • at 24 V         1 A           Protective and monitoring functions         Verotective and monitoring functions           product function         No           • phase failure detection         Yes           obegin of the overload release         themal           maximum short-circuit current breaking capacity (icu)         100 kA           • at AC at 400 V rated value         100 kA           • at AC at 4500 V rated value         100 kA           • at AC at 4500 V rated value         100 kA           • at 400 V rated value         100 kA           • at 400 V rated value         100 kA           • at 4500 V rated value         100 kA           • at 4500 V rated value         4 kA           • at 4500 V rated value         5 A           • at 480 V rated value         5 A           • at 480 V rated value         5 A           • at 600 V rated value <td< td=""><td></td><td>laterally</td></td<>		laterally
number of NO contacts for auxiliary contacts         0           number of CO contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         1.5 A           at 24 V         1.5 A           operational current of auxiliary contacts at DC-13         1 A           at 24 V         1 A           Protective and monitoring functions         Ves           product function         No           a pround fault detection         Yes           b phase failure detection         Yes           trip class         CLASS 10           design of the overload release         thermal           maximum short-circuit current breaking capacity (icu)         100 kA           at AC at 40 V rated value         100 kA           at AC at 50 OV rated value         100 kA           at AC at 50 OV rated value         100 kA           at 40 V rated value         100 kA           at 40 V rated value         100 kA           at 50 V rated value         5 A           at 60 V rated value         5 A           at 480 V rated value         5 A		
number of CO contacts for auxiliary contacts at AC-15		
operational current of auxiliary contacts at AC-15		
	·	
• at 230 V   1 A   Protective and monitoring functions	· ·	1.5 Δ
e at 24 V Protective and monitoring functions  product function  • ground fault detection • ground fault fault • ground fault		
e at 24 V  Protective and monitoring functions  product function		1.0 A
Product function  • ground fault detection • phase failure detection • phase failure detection  • phase failure detection  • phase failure detection  Yes  CLASS 10  design of the overload release  maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 590 V rated value • at AC at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 100 KA • at 240 V rated value • at 480 V rated value • at 690 V rated value • at 50 A  5 A  5 A  • at 110/120 V rated value • for 3-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 576/600 V rated value • at 675/600 V rated value • at 576/600 V rated value	· ·	1 Δ
product function  • ground fault detection  • phase failure detection  • phase failure detection  trip class  CLASS 10  design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC of the overload release  for a 1240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  • at 480 V rated value  • at 200 V rated value  • at 200 V rated value  • at 480 V rated value  • at 690 V rated value  • at 200/208 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • at 575600 V rated value  • at 575600 V rated value  — at 575600 V rated value  — at 575600 V rated value  3 hp  contact rating of auxiliary contacts according to UL  C600 / R300		
• ground fault detection • phase failure detection • phase failure detection  trip class  class  class 10  design of the overload release  maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • 5A  yielded mechanical performance [hp] • for single-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • for 3-phase AC mo	-	
phase failure detection  trip class  design of the overload release  maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  at AC at 400 V rated value  at AC at 400 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at 400 V rated value  at 690 V rated value  bat 690 V rated value  fresponse value current of instantaneous short-circuit trip unit  bat ABC at 690 V rated value  at 690 V rated value  5 A  ULICISA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  5 A  yielded mechanical performance [hp]  for single-phase AC motor  - at 110/120 V rated value  5 A  yielded mechanical performance [hp]  for 3-phase AC motor  - at 220/208 V rated value  1 hp  - at 220/208 V rated value  1 hp  - at 220/208 V rated value  1 hp  - at 220/200 V rated value  3 hp  at 660 V R300  contact rating of auxiliary contacts according to UL  C600 / R300	•	No
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 6 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 500 kA  • at 690 V rated value 500 kA  • at 690 V rated value 500 kA  • at 690 V rated value 55 A  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor 5 A  • at 480 V rated value 5 A  • at 690 V rated value 5 A  pielded mechanical performance [hp]  • for single-phase AC motor		
design of the overload release	·	
maximum short-circuit current breaking capacity (Icu)	<u> </u>	
at AC at 240 V rated value     at AC at 400 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value     at AC at 690 V rated value     at 240 V rated value     at 690 V rated value     at 480 V rated value     5 A      at 690 V rated value     5 A      at 101-10ad current (FLA) for 3-phase AC motor     at 480 V rated value     5 A      interpretated value	<del>_</del>	
■ at AC at 400 V rated value     ■ at AC at 500 V rated value     ■ at AC at 690 V rated value     ■ at 240 V rated value     ■ at 240 V rated value     ■ at 240 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 500 V rated value     ■ at 690 V rated value     ■ at 690 V rated value     ■ at 690 V rated value     ■ at 480 V rated value     ■ at 600 V rated value     ■ at 480 V rated value     ■ at 480 V rated value     ■ at 600 V rated value     ■ at 230 V rated value     ■ at 230 V rated value     ■ at 220/230 V rated value     ■ at 220/230 V rated value     ■ at 220/230 V rated value     ■ at 480/480 V rated value     ■ at 480/480 V rated value     ■ at 480/480 V rated value     ■ at 575/600 V rated value     3 hp     — at 575/600 V rated value     3 hp contact rating of auxiliary contacts according to UL     ■ C600 / R300		100 kA
at AC at 500 V rated value at AC at 690 V rated value be at AC at 690 V rated value at 240 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value at 690 V rated value be at 690 V rated value  at 690 V rated value be at 690 V rated value  at 690 V rated value be at 690 V rated value  at 690 V rated value be at 480 V rated value be at 600 V rated value be at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value be for 3-phase AC motor at 200 V rated value contact rating of auxiliary contacts according to UL		
at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  at 240 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  be at 690 V rated value  at 690 V rated value  at 690 V rated value  be at 690 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  for single-phase AC motor  at 110/120 V rated value  for single-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 3 phase AC motor  at 200/208 V rated value  for 4 phase AC motor  at 200/208 V rated value  for 4 phase AC motor  at 200/208 V rated value  for 4 phase AC motor		
operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  **Total Common Commo		
<ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>4 kA</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>65 A</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>5 A</li> <li>in 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>of rat 110/120 V rated value</li> <li>0.17 hp</li> <li>at 230 V rated value</li> <li>of or 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/230 V rated value</li> <li>1 hp</li> <li>at 460/480 V rated value</li> <li>3 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>C600 / R300</li> </ul>		
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>4 kA</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>65 A</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>5 A</li> </ul> </li> <li>4 t 80 V rated value</li> <li>5 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>0.17 hp</li> <li>at 230 V rated value</li> <li>o.5 hp</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>3 hp</li> <li>at 575/600 V rated value</li> <li>3 hp</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		100 kA
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>4 kA</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>65 A</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>the at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>thp</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>thp</li> <li>at 200/208 V rated value</li> <li>thp</li> <li>at 460/480 V rated value</li> <li>thp</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>thp</li> <li>at 575/600 V rated value</li> <li>thp</li> </ul> </li> <li>contact rating of auxiliary contacts according to UL</li> <li>C600 / R300</li> </ul>		
• at 690 V rated value  response value current of instantaneous short-circuit trip unit  65 A  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor      • at 480 V rated value     • at 600 V rated value     • for single-phase AC motor      — at 110/120 V rated value     • for 3-phase AC motor      — at 230 V rated value     • for 3-phase AC motor      — at 200/208 V rated value     • for 3-phase AC motor      — at 460/480 V rated value     — at 460/480 V rated value     — at 575/600 V rated value     — at 575/600 V rated value     Contact rating of auxiliary contacts according to UL      **Example 1.55 A**  4 KA  65 A  65 A  65 A  65 A  65 A  65 A  66 A  65 A  65 A  65 A  66 A  65 A  66 O / R300		
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  5 A  yielded mechanical performance [hp]  • for single-phase AC motor  - at 110/120 V rated value  0.17 hp  - at 230 V rated value  • for 3-phase AC motor  - at 200/208 V rated value  1 hp  - at 220/230 V rated value  1 hp  - at 460/480 V rated value  3 hp  contact rating of auxiliary contacts according to UL  C600 / R300		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value 5 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 0.17 hp — at 230 V rated value 0.5 hp  • for 3-phase AC motor  — at 200/208 V rated value 1 hp — at 220/230 V rated value 1 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 200/ R300		
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]  • for single-phase AC motor  — at 110/120 V rated value 0.17 hp — at 230 V rated value 0.5 hp  • for 3-phase AC motor  — at 200/208 V rated value 1 hp — at 220/230 V rated value 1 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300	UL/CSA ratings	
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>5 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor  - at 110/120 V rated value</li> <li>- at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>- at 200/208 V rated value</li> <li>1 hp</li> <li>- at 220/230 V rated value</li> <li>1 hp</li> <li>- at 460/480 V rated value</li> <li>- at 575/600 V rated value</li> <li>3 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>5 A</li> <li>6 A</li> <li>7 P</li> <li>7 P</li> <li>7 P</li> <li>8 P</li> <li>9 P</li> <li>9 P</li> <li>1 P</li> <li>2 P</li> <li>3 P</li> <li>4 P</li> <li>5 P</li> <li>6 P</li> <li>6 P</li> <li>7 P</li> <li>8 P</li> <li>9 P</li> <li>9 P</li> <li>1 P</li> <li>1 P</li> <li>2 P</li> <li>3 P</li> <li>4 P</li> <li>4 P</li> <li>5 P</li> <li>6 P</li> <li>6 P</li> <li>7 P</li> <li>8 P</li> <li>9 P</li> <li< td=""><td></td><td></td></li<></ul>		
in at 600 V rated value      in single-phase AC motor		5 A
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 0.17 hp  — at 230 V rated value 0.5 hp  • for 3-phase AC motor  — at 200/208 V rated value 1 hp  — at 220/230 V rated value 1 hp  — at 460/480 V rated value 3 hp  — at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300		
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>• for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> <li>3 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>C600 / R300</li> </ul>		
- at 110/120 V rated value 0.17 hp - at 230 V rated value 0.5 hp  ● for 3-phase AC motor - at 200/208 V rated value 1 hp - at 220/230 V rated value 1 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300		
- at 230 V rated value  • for 3-phase AC motor  - at 200/208 V rated value 1 hp  - at 220/230 V rated value 1 hp  - at 460/480 V rated value 3 hp  - at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL  0.5 hp  1 hp  1 hp  2 hp  3 hp  C600 / R300	- 1	0.17 hp
for 3-phase AC motor         — at 200/208 V rated value		·
- at 200/208 V rated value 1 hp - at 220/230 V rated value 1 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300		
— at 220/230 V rated value       1 hp         — at 460/480 V rated value       3 hp         — at 575/600 V rated value       3 hp         contact rating of auxiliary contacts according to UL       C600 / R300	•	1 hp
- at 460/480 V rated value 3 hp - at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300		
— at 575/600 V rated value 3 hp  contact rating of auxiliary contacts according to UL C600 / R300		
contact rating of auxiliary contacts according to UL C600 / R300		
•		
	Short-circuit protection	

product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 6 A, quick: 10 A
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
● at 400 V	gL/gG 32 A
● at 500 V	gL/gG 32 A
● at 690 V	gL/gG 25 A
nstallation/ 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	65 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	
— 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
● for grounded parts at 500 V	
— 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
• 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	
— 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
for auxiliary and control 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
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	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	
• for main contacts	M3
of the auxiliary and control contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No
<ul> <li>safety-related switching OFF</li> </ul>	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	
General Product Approval	

General Product Approval

Confirmation









<u>KC</u>

General Product Approval

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

Lloyd's Kegister





Miscellaneous

other

Confirmation



Railway

Environment







## Further information

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=3RV2111-1FA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-1FA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1FA10

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

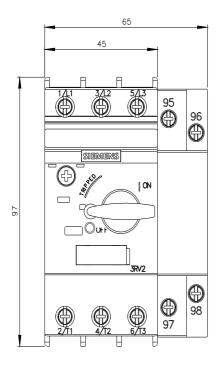
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2111-1FA10&lang=en

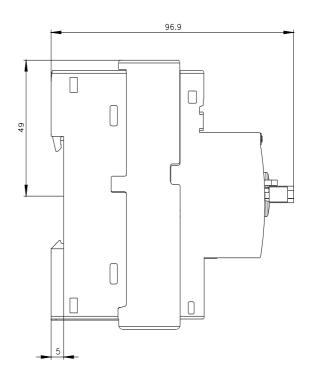
Characteristic: Tripping characteristics, I²t, Let-through current

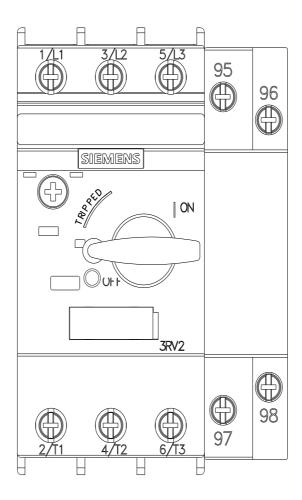
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1FA10/char

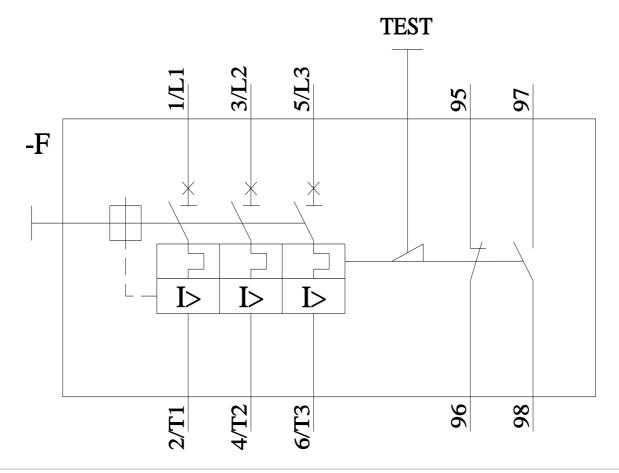
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-1FA10&objecttype=14&gridview=view1









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