## **SIEMENS**

Data sheet 3RV2011-1KA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 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>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (switching 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	9 12.5 A

• operating voltage at AC-3 rated value     • operating voltage at AC-3 rated value     • operating frequency rated value     operating frequency rated value     operating frequency rated value     operating frequency rated value     operating power at AC-3     • at 230 V rated value     • at 430 V rated value     • at 430 V rated value     • at 4500 V rated value     • at 690 V rated value     operating frequency at AC-3 maximum     for 15 1/h  Auxiliary circuit  rumber of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     oproduct function     • ground fault detection     • ground fault detection     • phase failure detection     • phase failure detection     • phase failure detection     ves     at 240 V rated value     • at 240 V rated value     • at 400 V rated value     • at 690 V rated value     • at AC at 400 V rated value     • at 600 V rated value     • at 400 V rated value     • at 400 V rated value     • at 600 V rated value     • at 6	
operating voltage at AC-3 rated value maximum     operating frequency rated value     operational current at AC-3 at 400 V rated value     operating power at AC-3	
operating frequency rated value operational current rated value operational current at AC-3  • at 230 V rated value • at 400 V rated value • at 5500 V rated value • at 6500 V rated value • at 6500 V rated value • at 6500 V rated value  operating frequency at AC-3 maximum  Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operating frequency at AC-3 maximum  Protective and monitoring functions  product function • ground fault detection • ground faul	
Departional current rated value	
operatinal current at AC-3 at 400 V rated value  operating power at AC-3  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 800 V rated value • at 690 V rated value • at 690 V rated value • operating frequency at AC-3 maximum  operating frequency at AC-3 maximum  operating frequency at AC-3 maximum  for NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  product function • ground fault detection • ground fault detection • ground fault detection • phase failure detection  trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (ics)  at AC • at 240 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 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 AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 600 V rated value •	
operating power at AC-3  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  rows of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  product function  • ground fault detection  • phase failure detection  • ph	
at 400 V rated value at 500 V rated value 7 500 W at 690 V rated value 7 500 W operating frequency at AC-3 maximum 15 1/h  Auxillary circuit 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 CO contacts for auxiliary contacts 0  Protective and monitoring functions  product function a ground fault detection by pase failure detection  frip class CLASS 10 design of the overload release breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 690 V rated value 4 2 kA at 690 V rated value 4 2 kA breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 4 th AC at 400 V rated value 5 th AC at 400 V rated value 6 kA breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 6 kA breaking capacity maximum short-circuit current (Icu) at AC at 500 V rated value 6 kA breaking capacity maximum short-circuit current (Icu) at AC at 400 V rated value 6 kA  tresponse 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 12.5 A for single-phase AC motor at 480 V rated value 7 to Shp at 230 V rated value 9 to Shp at 240 V rated value 9 to Shp at 300 V rated value 9 to Shp	
at 500 V rated value at 690 V rated value 7 500 W at 690 V rated value 7 500 W perating frequency at AC-3 maximum  Auxiliary circuit  number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 protective and monitoring functions  product function  a ground fault detection  b phase failure detection  c phase failure detection  trip class  design of the overload release  breaking capacity operating short-circuit current (ics) at AC  at 240 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at AC at 240 V rated value 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 500 V rated value at AC at 600 V rate	
at 690 V rated value operating frequency at AC-3 maximum  Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 protective and monitoring functions  product function  a ground fault detection breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value at 400 V rated value at 650 V rated value at AC at 240 V rated value at AC at 240 V rated value at AC at 300 V rated value breaking capacity maximum short-circuit current (Icu) at AC at AC at 690 V rated value at AC at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value breaking capacity maximum short-circuit current (Icu) breaking capacity function at AC at 400 V rated value breaking capacity function breaking capacity function breaking capacity operating short-circuit trip breaking capacity operating short-circuit current (Icu) breaking capacity operating short-circuit current (Icu) breaking capacity operating short-circuit (Icu) breaking capacity operating short-circuit (Icu) breaking capacity operating short-circuit (Icu) breaking capacity operating short	
operating frequency at AC-3 maximum  Auxillary circuit  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  protective and monitoring functions  product function  • ground fault detection  • ground fault detection  • phase failure detection  Yes  trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at AC at 240 V rated value  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 480 V rated value  • at AC at 690	
Auxiliary circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  protective and monitoring functions  product function  • ground fault detection  • phase failure detection  Yes  trip class  design of the overload release  thermal  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at AC at 240 V rated value  • 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 AC at 690 V r	
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection  trip class CLASS 10 design of the overload release breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 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 AC at	
number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  protective and monitoring functions  product function  • ground fault detection  • phase failure detection  • phase failure detection  • product function  • phase failure detection  • phase failure detection  • trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics)  at AC  • at 240 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  • at AC at 240 V rated value  • 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 690 V rated value  • at	
number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  protective and monitoring functions  product function  • ground fault detection  • phase failure detection  • phase failure detection  • product function  • phase failure detection  • phase failure detection  • trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics)  at AC  • at 240 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  • at AC at 240 V rated value  • 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 690 V rated value  • at	
number of CO contacts for auxiliary contacts  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  • phase failure detection  • phase failure detection  (CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics)  at AC  • at 240 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 800 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 690 V rated value  • at 690 V rated value  • at 700 V rated value  • at 690 V rated value  • at 700 V rated value  • at 690 V rated value  • at 690 V rated value  • at 700 V rate	
product function  • ground fault detection  • phase failure detection  • phase failure detection  trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value  • 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 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 400 V rated value • at AC at 800 V rated value  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	
product function  • ground fault detection  • phase failure detection  • phase failure detection  trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value  • 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 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 400 V rated value • at AC at 800 V rated value  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	
ground fault detection     phase failure detection     Yes  trip class     CLASS 10  design of the overload release     thermal  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value     at AC at 240 V rated value     at AC at 250 V rated value     at AC at 250 V rated value     at AC at 350 V rated value     at AC at 550 V rated value     at AC at 690 V rated value     at 600 V rated value	
• phase failure detection  trip class  CLASS 10  design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 690 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 500 V rated value • at 600 V rated value	
trip class  design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at AC at 240 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value breaking capacity maximum short-circuit current (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 rate	
design of the overload release  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 590 V rated value • at 690 V rated value • at 690 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 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value  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 • at 110/120 V rated value  - at 110/120 V rated value - at 230 V rated value - at 230 V rated value - 2 hp	
breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 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 AC at 690 V rated value • at AC at 690 V rated value    oat AC at 690 V rated value   oat AC at 690 V rated value   oat AC at 690 V rated value   oat AC at 690 V rated value   oat AC at 690 V rated value   oat AC at 690 V rated value   oat 480 V rated value   oat 480 V rated value   oat 600	
<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>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>for AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 10.5 hp</li> <li>at 20 V rated value</li> </ul>	
at 400 V rated value at 500 V rated value 42 kA at 690 V rated value 4 kA  breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 100 kA at AC at 400 V rated value 100 kA at AC at 500 V rated value 42 kA at AC at 690 V rated value 6 kA 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 12.5 A at 600 V rated value 12.5 A  yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 230 V rated value 2 hp	
at 500 V rated value at 690 V rated value  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value at AC at 400 V rated value at AC at 690 V rated value  at AC at 690 V rated value  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value  at AC at 500 V rated value  breaking capacity maximum short-circuit (Icu)  at AC at 690 V rated value  cesponse value current of instantaneous short-circuit trip unit  breaking  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 10/120 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 110/120 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 110/120 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 2.5 A  yielded mechanical performance [hp]  at 230 V rated value  cesponse value current (FLA) for 3-phase AC motor  at 2.5 A  yielded mechanical performance [hp]  at 230 V rated value  2 hp	
at 690 V rated value  breaking capacity maximum short-circuit current (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 690 V rated value  at AC at 690 V rated value  fesponse 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  for single-phase AC motor  at 110/120 V rated value  at 230 V rated value  at 230 V rated value  2 hp	
breaking capacity maximum short-circuit current (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 690 V rated value  • at AC at 690 V rated value  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  • at 600 V rated value  • at 110/120 V rated value  — at 230 V rated value  2 hp	
<ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>6 kA</li> <li>response value current of instantaneous short-circuit trip unit</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>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>for single-phase AC motor</li> <li>at 10/120 V rated value</li> <li>0.5 hp</li> <li>at 230 V rated value</li> <li>2 hp</li> </ul> </li> </ul>	
<ul> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>6 kA</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>ICSA 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>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>- at 110/120 V rated value</li> <li>- at 230 V rated value</li> <li>2 hp</li> </ul>	
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>6 kA</li> <li>response value current of instantaneous short-circuit trip unit</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>t2.5 A</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>0.5 hp</li> <li>at 230 V rated value</li> <li>2 hp</li> </ul>	
<ul> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</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>at 600 V rated value</li> <li>to rated value</li> </ul> </li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>to 5 hp</li> <li>at 230 V rated value</li> </ul> </li> </ul>	
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  12.5 A  vielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  0.5 hp  — at 230 V rated value  2 hp	
unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value 12.5 A  yielded mechanical performance [hp]  • for single-phase AC motor — at 110/120 V rated value 0.5 hp — at 230 V rated value 2 hp	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  12.5 A  vielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  0.5 hp  — at 230 V rated value  2 hp	
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>12.5 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>2 hp</li> </ul>	
● at 600 V rated value  yielded mechanical performance [hp]  ● for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  2 hp	
yielded mechanical performance [hp]  ● for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  2 hp	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> <li>2 hp</li> </ul>	
— at 110/120 V rated value 0.5 hp — at 230 V rated value 2 hp	
— at 230 V rated value 2 hp	
· ·	
• for 3-phase AC motor	
— at 200/208 V rated value 3 hp	
— at 220/230 V rated value 3 hp	
— at 460/480 V rated value 7.5 hp	
— at 575/600 V rated value 10 hp	
Short-circuit protection	
product function short circuit protection Yes	
design of the short-circuit trip magnetic	
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V gL/gG 63 A	
● at 500 V gL/gG 50 A	
● at 690 V gL/gG 40 A	
Installation/ mounting/ dimensions	
mounting position any	



fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
rasterning metriod	according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
<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
• 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	
product function removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
<ul><li>— solid or stranded</li></ul>	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)
at AWG cables for main contacts	2x (18 14), 2x 12
• tightening torque for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
B10 value	
	5 000
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	
• with high demand rate acc. to SN 31920  proportion of dangerous failures	
-	50 %
proportion of dangerous failures	



• with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle

Certificates/ approvals

## **General Product Approval**

For use in hazardous locations













For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





**Miscellaneous** 

Type Test
Certificates/Test
Report

Special Test Certificate



## Marine / Shipping













other

Railway

Confirmation



Vibration and Shock

Confirmation

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1KA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA10

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1KA10\&lang=en}}$ 

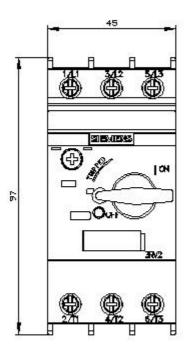
Characteristic: Tripping characteristics, I2t, Let-through current

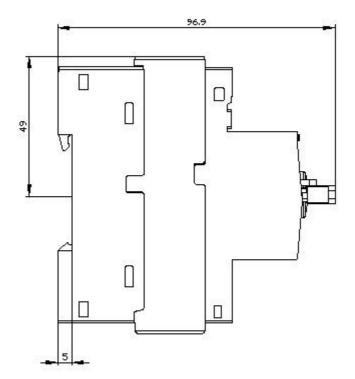
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA10/char

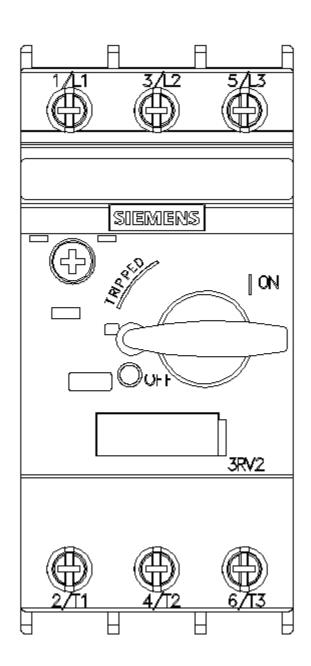
Further characteristics (e.g. electrical endurance, switching frequency)

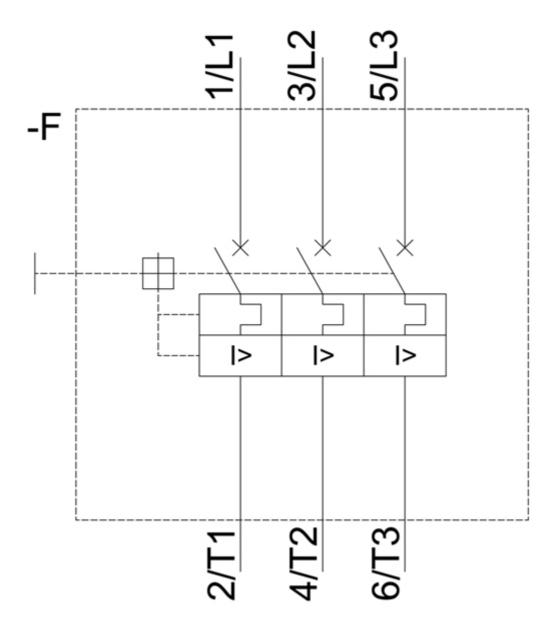
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1KA10&objecttype=14&gridview=view1











last modified: 12/15/2020 ☑