## **SIEMENS**

Data sheet 3RV1011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A Screw terminal Standard switching capacity

product designation  design of the product product type designation  General technical data  size of the circuit-breaker  size of the circuit-breaker  size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole  insulation vottage with degree of pollution 3 at AC rated value  surge vottage resistance reated value  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical lectrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical votted typical substance Prohibitance (bate)  SVHC substance name  Lead - 7439-92-1  Ambient conditions installation attitude at height above sea level maximum abient temperature • during operation • during storage • during transport relative humidity during operation  **adjustable current response value current of the current-dependent overload release operating vottage • rated value • at AC-3 arted value maximum • at AC-3 arted value maximum • at AC-3 arted value maximum • at AC-3 art 400 V rated value • at AC-3 at 400 V rated value	product brand name	SIRIUS
product type designation 3RV1  General technical data size of the circuit-breaker \$00  size of the circuit-breaker \$00  size of contactor can be combined company-specific \$00  product extension auxiliary switch Yes \$00  power loss [W] for rated value of the current *0 at AC in hot operating state \$0.25 W \$0.00  insulation voltage with degree of pollution 3 at AC rated value \$00 V \$0.00  surge voltage resistance rated value \$00 V \$0.00  we chanical service life (operating cycles) \$0.00  of the main contacts typical \$0.000  electrical endurance (operating cycles) \$0.000  electrical endurance (operating cycles) typical \$0.000  reference code according to IEC 81346-2 \$0.000  Substance Prohibitance (Date) \$0.1012013  SVHC substance name Lead - 7439-92-1  Ambient conditions \$0.000  installation altitude at height above sea level maximum \$0.000 \$0.000  during storage \$0.000 \$0.000  during storage \$0.000 \$0.000  during storage \$0.0000  during transport \$0.0000  during transport \$0.0000  during transport \$0.0000  elative humidity during operation \$0.0000  during transport \$0.0000  during transport \$0.0000  elative humidity during operation \$0.0000  during transport \$0.0000  during transport \$0.0000  elative humidity during operation \$0.0000  during transport \$0.00000  elative humidity during operation \$0.00000  during transport \$0.000000  elative humidity during operation \$0.00000000000000000000000000000000000	product designation	Circuit breaker
Size of the circuit-broaker size of the circuit-broaker size of the circuit-broaker size of contactor can be combined company-specific S00 product extension auxiliary switch Yes power loss IWJ for rated value of the current  • at AC in hot operating state 9,25 W • at AC in hot operating state per pole 3,1 W insulation voltage with degree of pollution 3 at AC rated value 890 V surge voltage resistance rated value mechanical service life (operating cycles) • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 01/01/2013 SWHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -20 +60 °C • during operation -20 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 %  Main cricuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value • at AC-3 rated value maximum 690 V operating frequency rated value • at AC-3 at 400 V rated value	design of the product	For motor protection
size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch  **et AC in hot operating state **et AC in hot operating state per pole **at AC in hot operating state per pole surge voltage resistance rated value  **final main contacts typical for auxiliary contacts typical perfect pole auxiliary contacts typical for auxiliary contacts typical perfect pole auxiliary contacts typical for auxiliary contact	product type designation	3RV1
size of contactor can be combined company-specific product extension auxiliary switch Yes  power loss [W] for rated value of the current  • at AC in hot operating state 9.25 W  • at AC in hot operating state 9.25 W  insulation voltage with degree of pollution 3 at AC rated value 68 V  surge voltage resistance rated value 66 kV  mechanical service life (operating cycles)  • of the main contacts typical 100 000  • of auxiliary contacts typical 100 000  electrical endurance (operating cycles) lypical 100 000  reference code according to IEC 81346-2 Q  Substance Prohibitance (Date) 01/01/2013  SVHC substance name Lead - 7439-92-1  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation 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 operating voltage  • rated value 20 690 V  • at AC-3 rated value maximum 690 V  operating at AC-3 at eld value 10 A	General technical data	
product extension auxiliary switch  power loss [M] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  • 6 kV  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxili	size of the circuit-breaker	S00
power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 kV  mechanical service life (operating cycles)  of the main contacts typical 100 000 electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical volume to auxiliary contacts typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical of auxiliary contacts typical electrical endurance (operating cycles) typical volume treference code according to IEC 81346-2 Q Substance Prohibitance (Date) 01/01/2013 SVHC substance name Lead - 7439-92-1  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation - 20 +60 °C - 40uring storage of uning storage - 50 +80 °C - 50 +80 °C - 10 +95 %  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage  • rated value  • at AC-3 aread value maximum - 690 V - at AC-3 aread value maximum - 690 V - operating frequency rated value - operational current rated value - operational current rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value - operational current - at AC-3 at 400 V rated value	size of contactor can be combined company-specific	S00
at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  fool V  surge voltage resistance rated value  mechanical service life (operating cycles)  of the main contacts typical of awilliary contacts typical of awilliary contacts typical lectrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation -20 +60 °C of uring transport relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 rated value maximum ent AC-3 are at 400 V rated value operational current of at AC-3 rated value operational current or at AC-3 at 400 V rated value  operational current or at AC-3 at 400 V rated value  operational current or at AC-3 at 400 V rated value  operational current or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value  operational current  or at AC-3 at 400 V rated value	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  of the main contacts typical  of the main contacts typical  of auxiliary contacts typical  ledetrical endurance (operating cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  olduring storage olduring storage olduring transport  relative humidity during operation  dijustification  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  or rated value  at AC-3 rated value maximum  operational current  other with definition at AC-3 at 400 V rated value  operational current  other with definition at AC-3 at 400 V rated value  operational current  other with definition at AC-3 at 400 V rated value  operational current  other with definition at AC-3 at 400 V rated value  operational current  other with definition at AC-3 at 400 V rated value  of the AC-3 at 400 V rated value	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  mechanical service life (operating cycles)  of the main contacts typical  of auxiliary contacts typical  lectrical endurance (operating cycles) typical  electrical endurance (operating cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SYHC substance name  Lead - 7439-92-1  Ambient conditions  installation altitude at height above sea level maximum  during operation  during operation  during storage  during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  at AC-3 rated value maximum  690 V  at AC-3 rated value maximum  690 V  operational current  et at AC-3 at 400 V rated value  operational current  et AC-3 at 400 V rated value  operational current  et AC-3 at 400 V rated value  10 A	<ul> <li>at AC in hot operating state</li> </ul>	9.25 W
surge voltage resistance rated value mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical leictrical endurance (operating cycles) typical leictrical endurance (operating cycles) typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) SVHC substance name  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit andjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value maximum epart AC-3 rated value operational current • at AC-3 rated value operational current • at AC-3 at 400 V rated value  operational current • at AC-3 at 400 V rated value  operational current • at AC-3 at 400 V rated value  operational current • at AC-3 at 400 V rated value  operational current • at AC-3 at 400 V rated value  operational current • at AC-3 at 400 V rated value  10 A	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 W
mechanical service life (operating cycles)  of the main contacts typical of auxiliary contacts typical lou 000 electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O1/01/2013 SVHC substance name Lead - 7439-92-1  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation oturing storage of uning transport relative humidity during operation  Nami circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum operating lou A operational current rated value operational current rated value operational current rated value operational current of the AC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value operational current of the CC-3 at 400 V rated value	insulation voltage with degree of pollution 3 at AC rated value	690 V
of the main contacts typical of auxiliary contacts typical loud 000 electrical endurance (operating cycles) typical loud 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1  Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage during transport relative humidity during operation  mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operational current rated value operational current rated value operational current rated value operational current at AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of the AC-3 at 400 V rated value  operational current of AC-3 at 400 V rated value	surge voltage resistance rated value	6 kV
of auxiliary contacts typical electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 01/01/2013 SVHC substance name Lead - 7439-92-1  Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation -20 +60 °C oduring storage during transport relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operations   0	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O1/01/2013 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage rated value at AC-3 rated value maximum et AC-3 erated value operational current rated value operational current et at AC-3 at 400 V rated value  operational current et AC-3 at 400 V rated value  10 A  operational current et AC-3 at 400 V rated value  10 A	<ul> <li>of the main contacts typical</li> </ul>	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 01/01/2013 SVHC substance name Lead - 7439-92-1  Ambient conditions  Installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -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  operating voltage  • rated value 20 690 V  • at AC-3e rated value maximum 690 V  operating frequency rated value 50 60 Hz operational current  • at AC-3 at 400 V rated value 10 A	of auxiliary contacts typical	100 000
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum • at AC-3 rated value  operational current rated value  operational current rated value  operational current rated value  10 A  operational current • at AC-3 at 400 V rated value  10 A	electrical endurance (operating cycles) typical	100 000
SVHC substance name  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  operational current rated value  operational current rated value  10 A  operational current  • at AC-3 at 400 V rated value  10 A	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  operating voltage • at AC-3 rated value maximum  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value	Substance Prohibitance (Date)	01/01/2013
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value  operating frequency rated value  operational current • at AC-3 at 400 V rated value  10 A	SVHC substance name	Lead - 7439-92-1
ambient temperature  • during operation • during storage • during transport relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating requency rated value  operating requency rated value  operational current rated value  10 A  operational current • at AC-3 at 400 V rated value  10 A	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>50 +80 °C</li> <li>during transport</li> <li>10 95 %</li> </ul> Main circuit number of poles for main current circuit <ul> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>during storage</li> <li>during transport</li> <li>50 +80 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3 rated value maximum</li> <li>operating frequency rated value</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>	ambient temperature	
<ul> <li>during transport</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>	<ul> <li>during operation</li> </ul>	-20 +60 °C
relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  • at AC-3e rated value maximum  690 V  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  10 A	during storage	-50 +80 °C
number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  10 A	during transport	-50 +80 °C
number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  operating voltage  • rated value  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  10 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release  operating voltage  • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  10 A	Main circuit	
dependent overload release  operating voltage  • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  10 A	number of poles for main current circuit	3
<ul> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>		7 10 A
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>	operating voltage	
<ul> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>10 A</li> </ul>	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 10 A operational current  • at AC-3 at 400 V rated value 10 A	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operational current rated value  operational current  o at AC-3 at 400 V rated value  10 A  10 A	at AC-3e rated value maximum	690 V
operational current  ● at AC-3 at 400 V rated value 10 A	operating frequency rated value	50 60 Hz
• at AC-3 at 400 V rated value 10 A		10 Λ
	operational current rated value	10 A
• at AC-3e at 400 V rated value 10 A	·	10 A
	operational current	

operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
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)	ulollia.
at AC at 240 V rated value	100 kA
at AC at 240 V rated value     at AC at 400 V rated value	50 kA
• at AC at 500 V rated value	3 kA
at AC at 690 V rated value	2 kA
operating short-circuit current breaking capacity (Ics) at AC	Z M
• at 240 V rated value	100 kA
at 400 V rated value	13 kA
at 500 V rated value     at 500 V rated value	3 kA
at 690 V rated value     at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	130 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	10 A
at 600 V rated value     at 600 V rated value	
	10 A
yielded mechanical performance [hp]  • for single-phase AC motor	
— at 110/120 V rated value	0.5 ha
— at 110/120 v rated value  — at 230 V rated value	0.5 hp
	1.5 hp
• for 3-phase AC motor	2 hn
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Short-circuit protection	Voc
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 240 V	gL/gG 80 A
	-1 (-O 00 A
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
at 500 V     at 690 V	
at 500 V     at 690 V  Installation/ mounting/ dimensions	gL/gG 50 A gL/gG 50 A
at 500 V     at 690 V  Installation/ mounting/ dimensions mounting position	gL/gG 50 A gL/gG 50 A any
at 500 V     at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method	gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
at 500 V  at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method height	gL/gG 50 A gL/gG 50 A  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm
at 500 V     at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method	gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	<b>V</b>
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— at the side — forwards	0 mm
Connections/ Terminals	O IIIIII
type of electrical connection	access to the action and access to the acces
• for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
type of connectable conductor cross-sections  • for main contacts	
• for main contacts	2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²). 2x (1 4 mm²)
for main contacts     — solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) 2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections	
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections     for auxiliary contacts         — solid or stranded	
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals size of the screwdriver tip  design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function suitability for use	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data product function suitable for safety function suitability for use         • safety-related switching on	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals  size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals         size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures         • with low demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function suitability for use         • safety-related switching on         • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes  40 %  50 %  5 000
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals         size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary  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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes
for main contacts         — solid or stranded         — finely stranded with core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded  tightening torque         • for main contacts with screw-type terminals         • for auxiliary contacts with screw-type terminals         size of the screwdriver tip  design of the thread of the connection screw         • for main contacts  Safety related data  product function suitable for safety function  suitability for use         • safety-related switching on         • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  0.8 1.2 N·m  0.8 1.2 N·m  Pozidriv size 2  M3  Yes  No  Yes  10 a  Yes  40 %  50 %  5 000

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
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	Rocker switch
Approvals Certificates	

## **General Product Approval**





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

**Special Test Certific-**



## Marine / Shipping













other

Railway

**Miscellaneous** 

Confirmation



**Special Test Certific-**<u>ate</u>

## 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=3RV1011-1JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1JA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA10

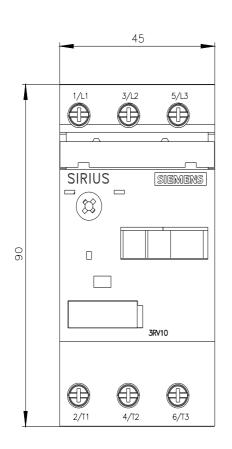
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

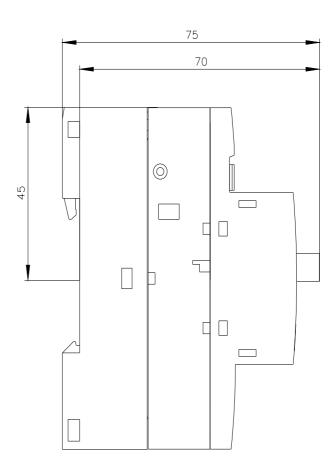
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1JA10&lang=en

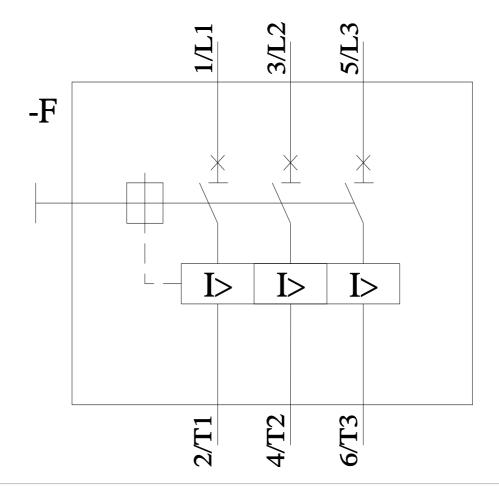
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA10/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1JA10&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1JA10&objecttype=14&gridview=view1</a>







last modified:

