## **SIEMENS**

Data sheet 3RV1011-1AA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
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
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Blei - 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
e during transport	
during transport	-50 +80 °C
relative humidity during operation	-50 +80 °C 10 95 %
relative humidity during operation	
relative humidity during operation  Main circuit	10 95 %
relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-	10 95 % 3
relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release	10 95 % 3
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	10 95 %  3 1.1 1.6 A
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	10 95 %  3 1.1 1.6 A  20 690 V
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	10 95 %  3 1.1 1.6 A  20 690 V 690 V
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  • at AC-3e rated value maximum	10 95 %  3 1.1 1.6 A  20 690 V 690 V
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  • at AC-3e rated value maximum  operating frequency rated value	10 95 %  3 1.1 1.6 A  20 690 V 690 V 690 V 50 60 Hz
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  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value	10 95 %  3 1.1 1.6 A  20 690 V 690 V 690 V 50 60 Hz
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  • at AC-3e rated value maximum  operating frequency rated value  operational current rated value  operational current	3 1.1 1.6 A  20 690 V 690 V 690 V 50 60 Hz 1.6 A

Departing power		
	operating power	
	• at AC-3	
	— at 230 V rated value	0.3 kW
	— at 400 V rated value	0.55 kW
	— at 500 V rated value	0.8 kW
	— at 690 V rated value	0.8 kW
	• at AC-3e	
	— at 230 V rated value	0.3 kW
— at 880 V rated value operating frequency • at AC-2 maximum • at AC-3 maximum • at 10 mumber of NC contacts for auxiliary contacts • 1 • number of NC contacts for auxiliary contacts • 1 • number of NC contacts for auxiliary contacts • 1 • number of CO contacts for auxiliary contacts • 1 • number of CO contacts for auxiliary contacts • 1 • number of CO contacts for auxiliary contacts • 1 • at 10 V • 2 A • at 110 V • 2 A • at 120 V • at 124 V • at 120 V • at 125 V • at 20 V • at 124 V • at 60 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 10 V • at 60 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 10 V • at 60 V • at 6	— at 400 V rated value	0.55 kW
operating frequency  • at AC-S maximum  15 1/th  Auxiliary circuit  • note  • at AC-S maximum  • operational current of auxiliary contacts  • at 10   • poperational current of auxiliary contacts  • at 120 V  • at 160 V  • operational current of auxiliary contacts at DC-13  • at 24 V  • at 160 V  • poperational current of auxiliary contacts at DC-13  • at 24 V  • at 100 V rated value  • at 200 V rated value  • at	— at 500 V rated value	0.8 kW
earl AC-3 maximum	— at 690 V rated value	0.8 kW
audillary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts income number of NC contacts for auxiliary contacts income number of NO contacts for auxiliary contacts income income number of NO contacts for auxiliary contacts income inco	operating frequency	
Auxiliary circuit   design of the auxiliary switch   transverse	• at AC-3 maximum	15 1/h
design of the auxiliary switch number of NC contacts for auxiliary contacts	• at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts  • note  1  • note  • at 24 V  • at 120 V  • at 120 V  • at 120 V  • at 125 V  • at 230 V  • operational current of auxiliary contacts at DC-13  • at 24 V  • at 125 V  • at 126 V  • at 26 V  • at 26 V  • at 20 V  • at 126 V  • at 20 V  • at 20 V  • at 20 V  • at 30 V  • at 40 V rated value  • at AC at 30 V rated value  • at 40 V rated value  • at 50 V	Auxiliary circuit	
number of NO contacts for auxiliary contacts	design of the auxiliary switch	transverse
number of NO contacts for auxiliary contacts  • note  1  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V 2 A  • at 110 V 2 A  • at 120 V 2 A  • at 125 V 2 A  • at 230 V 0 A  • at 25 V 1 A  • at 350 V 0 A  • at 50 V 0 A  • at 60 V rated value  • at 60 V ra	number of NC contacts for auxiliary contacts	1
■ number of CO contacts for auxiliary contacts	• note	1
number of CO contacts for auxiliary contacts   0	number of NO contacts for auxiliary contacts	1
at 24 V	• note	1
at 124 V     at 110 V     at 120 V     at 125 V     at 125 V     at 230 V     operational current of auxiliary contacts at DC-13     at 24 V     at 60 V     o.15 A  Protective and monitoring functions  product function     ground fault detection No     phase failure detection Yes  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 240 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 AC at 500 V rated value     at AC at 500 V rated value     at 400 V rated value     at 480 V rated value     at 60 V rated value     at	number of CO contacts for auxiliary contacts	0
	operational current of auxiliary contacts at AC-15	
	• at 24 V	2 A
	• at 110 V	2 A
• at 230 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • 0.15 A  Protective and monitoring functions  product function • ground fault detection • phase failure detection • phase failure detection • yes  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 250 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 500 V rated value • at 400 V rated value • at 690 V rated value • at 480 V rated value • at 690 V rated value • at 480 V rated value • at 690 V rated value	• at 120 V	2 A
operational current of auxiliary contacts at DC-13  • at 24 V 0.15 A  Protective and monitoring functions  product function • ground fault detection No • phase failure detection Yes  trip class  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 550 V rated value 2 kA  operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value 100 kA • at AC at 550 V rated value 100 kA • at AC over a detail of the control current breaking capacity (Ics) at AC • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 100 kA • at 60	• at 125 V	2 A
• at 24 V	• at 230 V	0.5 A
• at 60 V  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  • phase failure detection  • phase failure detection  Yes  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 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 40 V rated value  • at 40 V rated value  • at 500 V rated value  • at 500 V rated value  • at 690 V rated value  • at 600 V rated value  • at 756/600 V rated value  • at 756/600 V rated value  • at 600 V rated value  • at 756/600 V rated value  • at 600 V rated value  • at 600 V rated value  • at 756/600 V rated value  • at 600 V rated value  • at	operational current of auxiliary contacts at DC-13	
Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  Yes  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 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 AC at 400 V rated value  • at 500 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 600 V rated value  • at 600 V rated value  • at 480 V rated value  • at 600 V rated value  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 460480 V rated value  • 1 hp  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	• at 24 V	1 A
product function  • ground fault 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 240 V rated value • at AC at 500 V rated value • at AC at 600 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 800 V rated value • at 480 V rated value • at 600 V rat	● at 60 V	0.15 A
• ground fault detection • phase failure detection Yes  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 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 AC at 400 V rated value • at AC at 500 V rated value • at 40 V rated value • at 500 V rated value • 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  1.6 A  yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 460/480 V rated value • 1 hp • for 575/600 V rated value • 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	Protective and monitoring functions	
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 240 V rated value  at AC at 550 V rated value  at AC at 550 V rated value  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 400 V rated value  at 500 V rated value  at 690 V rated value  at 690 V rated value  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 690 V rated value  bior 3-phase AC motor  at 230 V rated value  at 690 V rated value  of 1 hp  at 575/600 V rated value  0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	product function	
trip class  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 at 690 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • for 3-phase AC motor • at 230 V rated value • for 3-phase AC motor • at 480 V rated value • for 3-phase AC motor • at 480 V rated value • for 3-phase AC motor • at 575/600 V rated value • 0.8 hp contact rating of auxiliary contacts according to UL Short-circuit protection	ground fault detection	No
design of the overload release maximum short-circuit current breaking capacity (Icu)  at AC at 24 0 V rated value 100 kA  at AC at 400 V rated value 100 kA  at AC at 500 V rated value 2 kA  operating short-circuit current breaking capacity (Ics) at AC  at 400 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 500 V rated value 2 kA  response value current of instantaneous short-circuit trip unit 2 tA  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor 4 t480 V rated value 1 t600 V rated value 1 t6 A  yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value 9 to fra 3-phase AC motor — at 460/480 V rated value 1 the — at 575/600 V rated value 0 the C300 / R300  Short-circuit protection	3	
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 690 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 600 V rated value • 1.6 A  yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 480/480 V rated value • 1 hp — at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection		Yes
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 at 400 V rated value at 690 V rated value at 69	phase failure detection	
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 be at AC at 690 V rated value at 2 kA  coperating 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 at 690 V rated value be 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 for 3-phase AC motor at 230 V rated value be for 3-phase AC motor at 230 V rated value be for 3-phase AC motor at 250 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 575/600 V rated value be for 3-phase AC motor at 460/480 V rated value be for 3-phase AC motor at 575/600 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor at 600/480 V rated value be for 3-phase AC motor	phase failure detection     trip class	CLASS 10
at AC at 500 V rated value at AC at 690 V rated value 2 kA  operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA at 690 V rated value 2 kA  response value current of instantaneous short-circuit trip unit 21 A  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 1.6 A  yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value 5 for 3-phase AC motor — at 460/480 V rated value 1 hp — at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	phase failure detection  trip class  design of the overload release	CLASS 10
at AC at 690 V rated value  operating short-circuit current breaking capacity (lcs) 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  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  for single-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 460/480 V rated value  for 3-phase AC motor  at 460/480 V rated value  for 3-phase AC motor  at 460/480 V rated value  output  full hp  at 575/600 V rated value  output  full hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	phase failure detection  trip class  design of the overload release  maximum short-circuit current breaking capacity (Icu)	CLASS 10 thermal
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  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  1.6 A  • at 600 V rated value  1.6 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 460/480 V rated value  1 hp  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	phase failure detection  trip class  design of the overload release  maximum short-circuit current breaking capacity (Icu)      at AC at 240 V rated value	CLASS 10 thermal 100 kA
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  response value current of instantaneous short-circuit trip unit  21 A  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 600 V rated value at 200 V rated value	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	CLASS 10 thermal  100 kA 100 kA
at 400 V rated value at 500 V rated value at 690 V rated value z 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 1.6 A  at 600 V rated value 1.6 A  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 0.1 hp  for 3-phase AC motor at 460/480 V rated value 1 hp at 460/480 V rated value 1 hp at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	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	CLASS 10 thermal  100 kA 100 kA
at 500 V rated value at 690 V rated value 2 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 1.6 A  at 600 V rated value 1.6 A  yielded mechanical performance [hp]  for single-phase AC motor  - at 230 V rated value  of 3-phase AC motor  - at 460/480 V rated value 1 hp  - at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 690 V rated value	CLASS 10 thermal  100 kA 100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit  21 A  ULI/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value 1.6 A  at 600 V rated value 1.6 A  yielded mechanical performance [hp]  for single-phase AC motor  at 230 V rated value 0.1 hp  for 3-phase AC motor  at 460/480 V rated value 1 hp  at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA
response value current of instantaneous short-circuit trip unit  ULI/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  1.6 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 460/480 V rated value  1 hp  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC      at 240 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA
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 230 V rated value  • for 3-phase AC motor  — at 460/480 V rated value  1 hp  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 500 V rated value      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 400 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  1.6 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 460/480 V rated value  1 hp  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 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 500 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA
at 480 V rated value  at 600 V rated value  1.6 A  yielded mechanical performance [hp]  for single-phase AC motor  at 230 V rated value  of 3-phase AC motor  at 460/480 V rated value  1 hp  at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 500 V rated value  at AC at 500 V rated value  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 500 V rated value  at 690 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA
at 600 V rated value      jielded mechanical performance [hp]      for single-phase AC motor          — at 230 V rated value      for 3-phase AC motor          — at 460/480 V rated value          — at 575/600 V rated value      contact rating of auxiliary contacts according to UL      Short-circuit protection  1.6 A  1.6 A  1.6 A  0.1 hp  0.2 hp	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 500 V rated value  at AC at 500 V rated value  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  response value current of instantaneous short-circuit trip unit	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA
yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 500 V rated value  at AC at 500 V rated value  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  response value current of instantaneous short-circuit trip unit  UL/CSA ratings	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA
for single-phase AC motor         — at 230 V rated value         for 3-phase AC motor         — at 460/480 V rated value         — at 575/600 V rated value         contact rating of auxiliary contacts according to UL  Short-circuit protection	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 500 V rated value  at AC at 500 V rated value  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 500 V rated value  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	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 101 kA 101 kA 101 kA
- at 230 V rated value  • for 3-phase AC motor  - at 460/480 V rated value  - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	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 500 V rated value  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 500 V rated value  at 500 V rated value  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	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
for 3-phase AC motor         — 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  Short-circuit protection  C300 / R300	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 500 V rated value  at AC at 500 V rated value  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  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	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
- at 460/480 V rated value 1 hp - at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL C300 / R300  Short-circuit protection	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 500 V rated value  at AC at 500 V rated value  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  at 690 V rated value  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  yielded mechanical performance [hp]	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
— at 575/600 V rated value 0.8 hp  contact rating of auxiliary contacts according to UL C300 / R300  Short-circuit protection	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 500 V rated value  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 500 V rated value  at 690 V rated value  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  for single-phase AC motor	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 101 kA
contact rating of auxiliary contacts according to UL C300 / R300  Short-circuit protection	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 500 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  at 240 V rated value  at 500 V rated value  at 500 V rated value  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  for single-phase AC motor  at 230 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 101 kA
Short-circuit protection	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 500 V rated value  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 500 V rated value  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  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 2 kA 2 lA  1.6 A 1.6 A 1.6 A
	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 500 V rated value  at AC at 500 V rated value  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 690 V rated value  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  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 460/480 V rated value  for 3-phase AC motor  at 460/480 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 2 kA 21 A  1.6 A 1.6 A 1.6 A
product function short circuit protection	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 500 V rated value  at AC at 500 V rated value  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 690 V rated value  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  yielded mechanical performance [hp]  for single-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 460/480 V rated value  at 575/600 V rated value  at 575/600 V rated value	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 2 kA 21 A  1.6 A 1.6 A 1.6 A  0.1 hp 0.8 hp
product randian direct endur protection 100	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 500 V rated value  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  at 690 V rated value  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  yielded mechanical performance [hp]  for single-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 460/480 V rated value  at 575/600 V rated value  contact rating of auxiliary contacts according to UL	CLASS 10 thermal  100 kA 100 kA 100 kA 2 kA  100 kA 100 kA 100 kA 100 kA 2 kA 21 A  1.6 A 1.6 A 1.6 A  0.1 hp 0.8 hp

design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 240 V	none required
● at 400 V	gL/gG 20 A
● at 500 V	gL/gG 20 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
required spacing	
• for grounded parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 400 V	
— 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	3 111111
— downwards	20 mm
	20 mm
— upwards — at the side	9 mm
	9 111111
for grounded parts at 690 V	20 mm
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	00
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 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 circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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
size of the screwdriver tip	Pozidriv size 2

design of the thread of the connection screw	
• for main contacts	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
B10 value with high demand rate according to SN 31920	5 000
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 version for switching status	Rocker switch
Approvals Certificates	

**General Product Approval** 

For use in hazardous locations

Confirmation











**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping











**Miscellaneous** 

other

other

Railway

Confirmation



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

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

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

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

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-1AA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1AA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1AA15

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

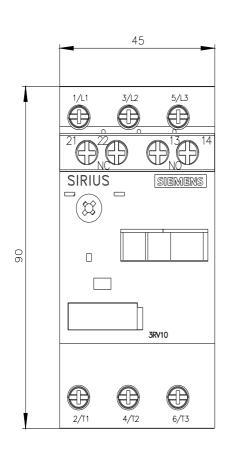
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1AA15&lang=en

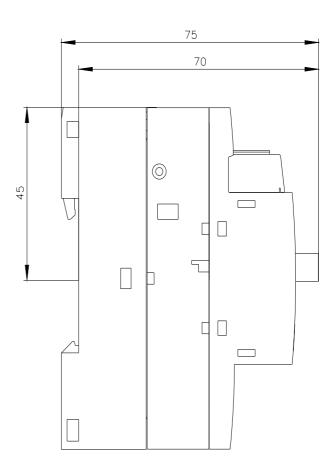
Characteristic: Tripping characteristics, I2t, Let-through current

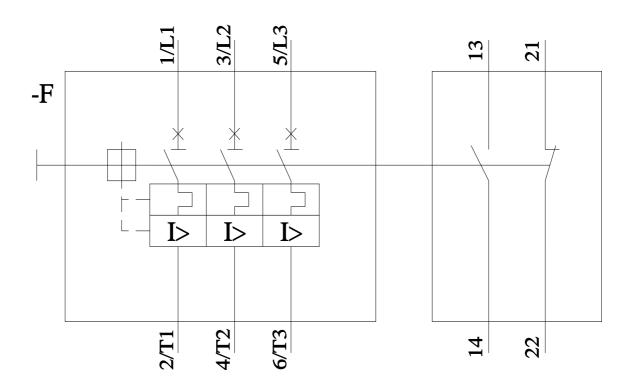
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1AA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1AA15&objecttype=14&gridview=view1







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