SIEMENS

Data sheet

3RV2021-4AA15



Circuit breaker size S0 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

4/12 5/13	
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	SO
size of contactor can be combined company-specific	S00, S0
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 per pole 	3.1 W
insulation voltage with degree of pollution 3 at AC rated	690 V
value	
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 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	10 16 A
operating voltage	
 rated value 	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A

operating prover 16 A • # AC-35 # 400 V rated value 16 A • # AC-35 # 400 V rated value 16 A • # AC-35 # 400 V rated value 16 A • # AC-35 # 400 V rated value 7.5 kW - # 200 V rated value 7.5 kW - # 200 V rated value 11 kW • # AC-35 # 4 kW - # 200 V rated value 7.5 kW - # 300 V rated value 7.5 kW - # 400 V rated value 11 kW operating frequency * * # AC-36 maximum 10 h * # AC-36 maximum	anarational aurrant	
• e1/C-3e at 400 vinet value16 A• e1/C-3-• at 230 vinet value7.5 kW- at 200 vinet value15 th- at 200 vinet value15 th- at 200 vinet value15 th- at 210 vinet value15 th- at 210 vinet value2 A- at 210 vinet value0.5 A- at 210 vinet value10 kA- at 210 vinet value10 kA <t< td=""><td>operational current</td><td>16.4</td></t<>	operational current	16.4
operating power• aft 230 V risked value4 KW- aft 240 V risked value7.5 KW- aft 240 V risked value7.5 KW- aft 250 V risked value11 KW- aft 250 V risked value7.5 KW- aft 250 V risked value7.5 KW- aft 250 V risked value7.5 KW- aft 260 V risked value11 KWoperating frequency11 KW- aft 260 V risked value15 I/h- aft 260 V risked value15 I/h- aft 260 V risked value10 KM- aft 260 V risked value0- aft 27 V0.5 K- aft 27 V0.5 K- aft 27 V0.5 K- aft 28 V0.5 K- aft 28 V0.5 K- aft 28 V0.5 K- aft 24 V0.15 AProduct functionNo- provide falle detectionNo- provide falle detectionNo- priske fallure detection100 KA- aft 240 V risked value100 KA- aft 240 V ris		
• at AC-3 • - at 400 Vrated value 4 kW - at 600 Vrated value 7.5 kW - at 600 vrated value 10 kW operating frequency 11 kW operating frequency 1 - at 60 vrated value y ontates to at AC-15 1 - at 610 Vrated value 0.5 A - at 210 V 0.5 A - at 210 V 0.5 A - at 60 Vrated value 10 kA - at 60 Vrated value </td <td></td> <td>10 A</td>		10 A
- at 400 V rited value 7.5 kW - at 580 V rated value 7.5 kW - at 580 V rated value 11 kW • at 420 V rated value 4 kW - at 400 V rated value 7.5 kW - at 400 V rated value 7.5 kW - at 600 V rated value 1.5 hh Auxtiary variati Vanue - at 210 V rated value 1.5 hh - at 220 V rated value 1.6 h - at 220 V 0.5 A - operational current of auxiliary contacts at DC-13 - - at 230 V 0.5 A - operational current of auxiliary contacts at DC-13 - - at 24 V 0.5 A - operational current of auxiliary contacts at DC-13 - - at 24 V 0.5 A - operational current of auxil		
− at 500 V rated value 7.5 kW − at 230 V rated value 11 kW − at 230 V rated value 7.5 kW − at 200 V rated value 7.5 kW − at 600 V rated value 1.5 th Auxiliary contacts of a valiary contacts at 0.6 ta 0 − at 230 V 0.5 A − at 20 V 0.5 A − at 20 V 0.5 A − at 600 V rated value 0.5 A		
• A AC.3a - • - at AC.3a - • - at AOD V rated value 7.5 kW • - at 600 V rated value 11 kW • operating frequency - • at AC.3a maximum 15 1/h • at AC.3a maximum 10 • at AC.3a maximum 10 • at AC.3a 0 • at AC.3a 0 • at AC.3a 0 • at AC.4a 0.5 A • at 20 V 0.5 A • at 20 V 0.5 A • at 60 V 0.5 A		
- al 400 V rated value 7.5 kW - al 600 V rated value 7.5 kW - al 600 V rated value 11 kW operating frequency 1 • al AC-3e maximum 15 1h • al AC-3e maximum 10 1h • al AC-3e maximum 10 1h • al AC-3e maximum 10 1h • al AC-3e maximum 0 • al AC-3e maximum 0.5 A • al 12 DV 0.5 A • al 12 DV 0.5 A • al 12 DV 0.5 A • al 24 V 1 A • al 24 V 1 A • al 60 V 10 5 A Protective and monitoring functions Ves product function Ves • al AC al 260 V 10 5 A • al AC al 260 V rated value 10 10 KA • al AC al 40 V rated value 10 10 KA • al AC al 500 V rated value 10 10 KA • al AC al 500 V rated value 10 KA • al AC al 500 V rated value 10 KA • al AC al 500 V rated value 10 KA • al AC al 500 V rated value 10 KA • al AC al 500 V rated value 10 KA <		4 kW
	— at 500 V rated value	
• at AC-3 maximum 15 th Auxiliary circuit tansverse design of the auxiliary switch tansverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 - • at 120 V 2.A • at 120 V 0.5 A • at 230 V 0.5 A • at 24 V 1.A • at 25 V 0.5 A • at 26 V 0.5 A • at 27 V 0.5 A • at 28 V 0.5 A • at 20 V 0.5 A • at 24 V 1.A • at 24 V 1.D • at 24 V value descion Value S • at 24 V value descion 1.D VA • at AC at 40 V rated value		11 kW
• at AC-3 maximum 15 th Auxiliary circuit tansverse design of the auxiliary switch tansverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 - • at 120 V 2.A • at 120 V 0.5 A • at 230 V 0.5 A • at 24 V 1.A • at 25 V 0.5 A • at 26 V 0.5 A • at 27 V 0.5 A • at 28 V 0.5 A • at 20 V 0.5 A • at 24 V 1.A • at 24 V 1.D • at 24 V value descion Value S • at 24 V value descion 1.D VA • at AC at 40 V rated value	operating frequency	
Auxiliary circuit fransverse design of the auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 2 A • at 20 V 0.5 A • at 24 V 1.A • at 24 V tatedvalue 1.A • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 10 kA • at AC at 600 V rated value		15 1/h
design of the auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • at 24 V 0.5 A • at 120 V 0.5 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13 • • at 24 V 0.5 A • at 24 V 0.5 A • at 25 V 0.5 A operational current of auxiliary contacts at DC-13 • • at 60 V 0.15 A Protective and monitoring functions Ves product function Yes • ground fault detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • • at AC at 500 V rated value 10 kA • at AC at 600 V rated value 5 kA • at 240 V rated value 10 kA • at 400 V rated value 5 kA • at 400 V rated value 20 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 600 V rated value 5 kA • at 6	• at AC-3e maximum	15 1/h
design of the auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • at 24 V 0.5 A • at 120 V 0.5 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13 • • at 24 V 0.5 A • at 24 V 0.5 A • at 25 V 0.5 A operational current of auxiliary contacts at DC-13 • • at 60 V 0.15 A Protective and monitoring functions Ves product function Yes • ground fault detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • • at AC at 500 V rated value 10 kA • at AC at 600 V rated value 5 kA • at 240 V rated value 10 kA • at 400 V rated value 5 kA • at 400 V rated value 20 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 600 V rated value 5 kA • at 6	Auxiliary circuit	
number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 2 • at 24 V 2.A • at 120 V 0.5 A • at 23 V 0.5 A • at 24 V 0.5 A • at 20 V 0.5 A • at 60 V 0.15 A Protective and monitoring functions Protective and monitoring functions product function No • phase failure detection Yes trip class CLASS 10 thermal Maximum Short-circuit current breaking capacity (tcu) • at AC at 240 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 600 V rated value 25 kA • at 4C at 600 V rated value 26 kA • at 400 V rated value 100 kA • at 400 V rated value 2 kA		transverse
number of NO contacts for auxiliary contacts1number of CO contacts for auxiliary contacts at AC-150• at 24 V2 A• at 120 V0.5 A• at 120 V0.5 A• at 120 V0.5 A• at 23 V0.5 A• at 24 V1.4• at 26 V0.5 A• at 26 V0.5 A• at 26 V0.5 A• at 27 V0.5 A• at 27 V0.5 A• at 28 V0.5 A• at 20 V1.5 AProduct functionValue• at 20 V tated value0.5 A• at 20 V tated value100 kA• at 20 V tated value25 kA• at 20 V tated value25 kA• at 20 V tated value26 kA• at 20 V tated value26 kA• at 20 V tated value26 kA• at 20 V tated value16 A• at 20 V tated value16 A• at 200 V tated value16 A• at 200 V tated value16 A• at 200 V tated val		
number of C0 contacts for auxiliary contacts at AC-15 et al 24 V		
operational current of auxiliary contacts at AC-15• at 24 V2 A• at 120 V0.5 A• at 125 V0.5 A• at 230 V0.5 Aoperational current of auxiliary contacts at DC-13• at 24 V1 A• at 60 V0.15 AProtective and monitoring functionsrig cond fault detectionNo• phase failure detectionYesrig cond fault detectionYesof the overload releasethermalmaximum short-circuit current breaking capacity (lou)100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value100 kA		0
• al 24 V 2 A • al 125 V 0.5 A • al 25 V 0.5 A • al 230 V 0.5 A operational current of auxiliary contacts at DC-13 • • al 24 V 1 A • al 60 V 0.15 A Protective and monitoring functions • product function No • phase failure detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 10 kA • at AC at 600 V rated value 10 kA • at AC at 600 V rated value 10 kA • at AC at 400 V rated value 25 kA • at AC at 400 V rated value 5 kA • at 40 V rated value 20 kA • at 40 V rated value 28 kA • at 400 V rated value 5 kA • at 600 V rated value 5 kA • at 600 V rated value 5 kA • at 600 V rated value 6 A • at 600 V rated value 100 kA		
		2 A
• at 230 ∨0.5 Åoperational current of auxiliary contacts at DC-131 Å• at 60 ∨0.15 ÅProtectives and monitoring functionsproduct functionNo• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releaseIhermalmaximum short-circuit current breaking capacity (Icu)100 kA• at AC at 240 V rated value55 kA• at AC at 400 V rated value100 kA• at AC at 650 V rated value100 kA• at AC at 650 V rated value100 kA• at AC at 650 V rated value55 kA• at 420 V rated value100 kA• at 420 V rated value50 kA• at 64 00 V rated value25 kA• at 64 00 V rated value25 kA• at 640 V rated value25 kA• at 640 V rated value26 kA• at 640 V rated value28 A• at 640 V rated value28 A• at 640 V rated value16 A• at 600 V rated value16 A<	● at 120 V	0.5 A
operational current of auxiliary contacts at DC-13• at 24 V1 A• at 26 V0.15 AProtective and monitoring functionsproduct function• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releaseIhermalmaximum Short-circuit current breaking capacity (Icu)100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value5 kA• at 240 V rated value100 kA• at 240 V rated value5 kA• at 240 V rated value5 kA• at 240 V rated value5 kA• at 600 V rated value10 kA• at 600 V rated value16 A• at 600 V rated value16 A <tr< td=""><td>• at 125 V</td><td>0.5 A</td></tr<>	• at 125 V	0.5 A
	• at 230 V	0.5 A
	operational current of auxiliary contacts at DC-13	
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) 100 kA • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 10 kA • at AC at 650 V rated value 4 kA operating short-circuit current breaking capacity (Ics) at 400 V rated value • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 25 kA • at 600 V rated value 5 kA • at 600 V rated value 2 kA response value current of instantaneous short-circuit trip 208 A unit 16 A • at 800 V rated value 16 A	• at 24 V	1 A
product function No • ground fault detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 600 V rated value 100 kA • at AC at 600 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 25 kA • at 240 V rated value 20 kA • at 600 V rated value 2 kA response value current of instantaneous short-circuit trip 208 A unit 208 A UL/CSA ratings 16 A full-load current (FLA) for 3-phase AC motor 16 A • at 800 V rated value 16 A • at 800 V rated value 16 A • at 230 V rated value 16 A • at 300 V rated value 1 hp	• at 60 V	0.15 A
• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 24 0V rated value100 kA• at AC at 400 V rated value50 kA• at AC at 500 V rated value10 kA• at AC at 500 V rated value4 kAoperating short-circuit current breaking capacity (Ics)• at AC at 600 V rated value25 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 2500 V rated value25 kA• at 500 V rated value25 kA• at 500 V rated value26 kA• at 500 V rated value26 kA• at 400 V rated value100 kA• at 400 V rated value2 kAresponse value current of instantaneous short-circuit trip208 Aunt16 A• at 480 V rated value16 A• at 480 V rated value16 A• at 480 V rated value2 hp• at 480 V rated value16 A• at 480 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for single-phase AC motor at 230 V rated value3 hp- at 220/280 V rated value5 hp- at 460/480 V rated valu	Protective and monitoring functions	
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 680 V rated value10 kA• at AC at 690 V rated value10 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value25 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 240 V rated value26 kA• at 400 V rated value20 kA• at 690 V rated value20 kA• at 690 V rated value20 kA• at 690 V rated value16 A• at 480 V rated value16 A• at 690 V rated value16 A• at 480 V rated value16 A• at 480 V rated value16 A• at 290 V rated value10 hp• at 290 V rated value10 hp• at 290 V rated value10 hp• at 290 V rated value3 hp• at 480/480 V rated value5 hp• at 480/480 V rated value	product function	
trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)- at AC at 240 V rated value100 kA- at AC at 500 V rated value10 kA- at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics)-at AC at 690 V rated value25 kA- at 240 V rated value100 kA- at 240 V rated value25 kA- at 240 V rated value26 kA- at 400 V rated value26 kA- at 690 V rated value26 kA- at 690 V rated value100 kA- at 600 V rated value100 kA- at 600 V rated value16 A- at 600 V rated value16 A- at 600 V rated value16 A- at 110/120 V rated value1 hp at 110/120 V rated value2 hp- for single-phase AC motor at 220/208 V rated value3 hp at 220/208 V rated value3 hp at 220/208 V rated value10 hp	 ground fault detection 	No
design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value10 kA• at AC at 690 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (lcs) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 690 V rated value26 kA• at 690 V rated value208 A• at 690 V rated value16 A• at 200 V rated value1 hp- at 110/120 V rated value2 hp• for 3-phase AC motor	 phase failure detection 	Yes
maximum short-circuit current breaking capacity (Icu)IOU KA• at AC at 24 0V rated value100 kA• at AC at 400 V rated value55 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 240 V rated value5 kA• at 690 V rated value26 kA• at 690 V rated value208 A• at 690 V rated value16 A• at 690 V rated value16 A• at 690 V rated value16 A• at 460 V rated value16 A• at 480 V rated value16 A• at 690 V rated value16 A• at 230 V rated value2 hp• for single-phase AC motor	trip class	CLASS 10
• at AC at 240 V rated value100 kA• at AC at 400 V rated value55 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 400 V rated value25 kA• at 500 V rated value2 kA• at 690 V rated value2 kA• at 690 V rated value2 kA• at 600 V rated value16 A• at 600 V rated value16 A• at 600 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor1 hp- at 230 V rated value3 hp- at 220/230 V rated value3 hp- at 220/230 V rated value3 hp- at 460/480 V rated value10 hp	design of the overload release	thermal
• at AC at 400 V rated value55 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC-• at 240 V rated value100 kA• at 240 V rated value25 kA• at 240 V rated value25 kA• at 690 V rated value20 kA• at 690 V rated value10 kA• at 690 V rated value16 A• at 80 V rated value16 A• at 80 V rated value16 A• at 110/120 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value1 hp- at 200/208 V rated value3 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 460/480 V rated value5 hp- at 460/480 V rated value10 hp	maximum short-circuit current breaking capacity (lcu)	
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 at AC at 690 V rated value 4 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 240 V rated value 25 kA at 500 V rated value 5 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings UL/CSA rated value at 800 V rated value 16 A at 600 V rated value 16 A at 600 V rated value 16 A at 110/120 V rated value 6 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 1 hp - at 200/208 V rated value 2 hp for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 0 hp Contact rating of auxiliary contacts according to UL C300 / R300 		
operating short-circuit current breaking capacity (Ics) at AC Intervent of the second sec		
at AC100 kA• at 240 V rated value100 kA• at 400 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsIUL/CSA ratingsIU		4 kA
• at 240 V rated value 100 kA • at 400 V rated value 25 kA • at 500 V rated value 5 kA • at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 208 A UL/CSA ratings UL/CSA ratings Id A Current (FLA) for 3-phase AC motor • at 480 V rated value 16 A • at 600 V rated value 16 A • at 200 V rated value 1 hp - at 200 V rated value 1 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 3 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 10 hp contact rating of auxiliary contacts according to UL C300 / R300		
• at 400 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsUL/CSA ratings10 UL/CSA ratings10 UL/CSA ratings10 A00 V rated value• at 480 V rated value16 A• at 480 V rated value16 A• at 600 V rated value16 A• at 600 V rated value1 hp• for single-phase AC motor1 hp- at 110/120 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULC300 / R300		100 kA
 at 500 V rated value at 690 V rated value 2 kA 208 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value tat 600 V rated value at 600 V rated value for single-phase AC motor for single-phase AC motor at 110/120 V rated value thp at 230 V rated value thp at 230 V rated value thp at 200/208 V rated value thp at 220/230 V rated value thp at 460/480 V rated value thp at 460/480 V rated value thp at 460/480 V rated value thp thp the total value th		
• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor • at 480 V rated value16 A• at 600 V rated value16 A• at 600 V rated value16 A• at 600 V rated value16 A• at 110/120 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor3 hp- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpContact rating of auxiliary contacts according to ULC300 / R300		
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unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor 16 A • at 480 V rated value 16 A • at 600 V rated value 16 A • at 600 V rated value 16 A yielded mechanical performance [hp] - • for single-phase AC motor - - at 110/120 V rated value 1 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 5 hp - at 460/480 V rated value 10 hp contact rating of auxiliary contacts according to UL C300 / R300		
full-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 600 V rated value16 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp	unit	
• at 480 V rated value16 A• at 600 V rated value16 Ayielded mechanical performance [hp]16 A• for single-phase AC motor1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp	UL/CSA ratings	
• at 600 V rated value16 Ayielded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpContact rating of auxiliary contacts according to ULC300 / R300	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value1 hp- at 230 V rated value• for 3-phase AC motor- at 200/208 V rated valueat 200/208 V rated value- at 220/230 V rated value5 hp- at 460/480 V rated valueContact rating of auxiliary contacts according to ULC300 / R300		
 for single-phase AC motor at 110/120 V rated value thp at 230 V rated value thp for 3-phase AC motor at 200/208 V rated value thp at 220/230 V rated value thp thp thp contact rating of auxiliary contacts according to UL C300 / R300 		16 A
 at 110/120 V rated value at 230 V rated value b for 3-phase AC motor at 200/208 V rated value b for 3-phase AC motor at 200/208 V rated value b for 3-phase AC motor b for 3-phase AC motor c at 220/230 V rated value c at 220/230 V rated value c at 460/480 V rated value 		
	5 • •	
• for 3-phase AC motor3 hp at 200/208 V rated value3 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULC300 / R300		
- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpcontact rating of auxiliary contacts according to ULC300 / R300		2 hp
— at 460/480 V rated value 10 hp contact rating of auxiliary contacts according to UL C300 / R300		
contact rating of auxiliary contacts according to UL C300 / R300		
5, 5,		
Short-circuit protection		C300 / R300
	Short-circuit protection	

product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	lk < 400 A)
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 DIN rail according to DIN EN
lastening method	60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
 for live parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG cables for main contacts 	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
tightening torque	

 for auxiliary con design of screwdrive size of the screwdrive design of the thread for main contact of the auxiliary a 	ver tip of the connection so	terminals	2 2.5 N·m 0.8 1.2 N Diameter 5 f Pozidriv size M4 M3	m to 6 mm		
Safety related data			_	_	_	
 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] 		5 000 50 % 50 %				
 with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 		50 FIT 10 a				
protection class IP o	on the front according	g to IEC	IP20			
60529 touch protection on the front according to IEC 60529 display version for switching status			finger-safe, Handle	for vertical cont	act from the front	
Certificates/ approvals	s					
General Product Ap	proval					For use in hazard- ous locations
<u>Confirmation</u>		(ل) س		<u>KC</u>	EHC	IECEx
For use in hazard-						
ous locations	Declaration of Con	formity	Test	Certificates		Marine / Shipping
	UK CA	formity CEG-Konf.	Туре	Certificates	Special Test Certific- ate	Marine / Shipping
	UK CA	CE	Туре	Test Certific-		Marine / Shipping
ous locations	Declaration of Con	CE	Туре	Test Certific-		ABS
ous locations	Declaration of Con	EG-Konf.	Туре	Test Certific-		ABS
ous locations		EG-Konf.		Test Certific-		ABS
ous locations	UK C	EG-Konf.		Test Certific-		ABS

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=3RV2021-4AA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4AA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA15

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

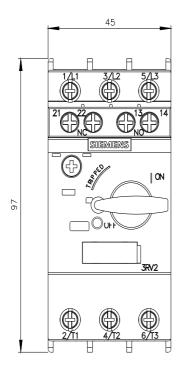
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4AA15&lang=en

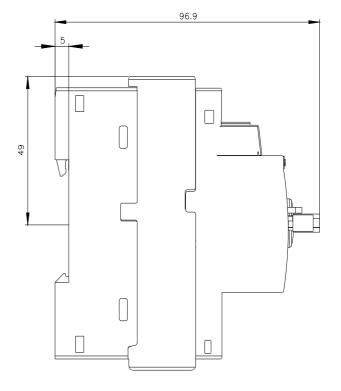
Characteristic: Tripping characteristics, I²t, Let-through current

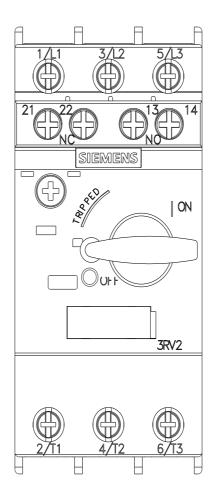
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA15/char

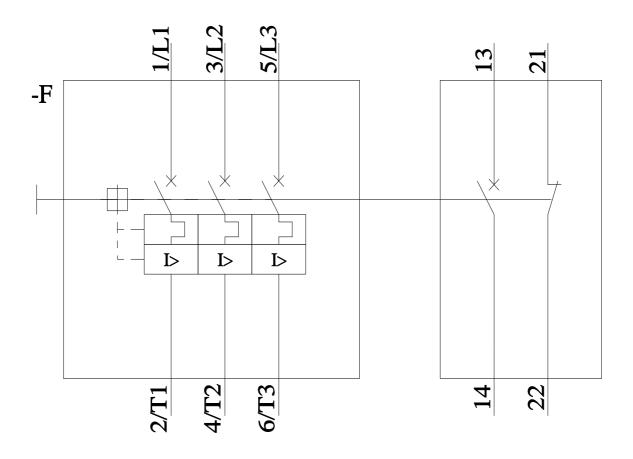
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4AA15&objecttype=14&gridview=view1









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