SIEMENS

Data sheet

3RV2031-4PA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 28...36 A N-release 520 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

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	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	6.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	50 000
electrical endurance (operating cycles) typical	50 000
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)	10/15/2014
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	28 36 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	36 A
operational current	

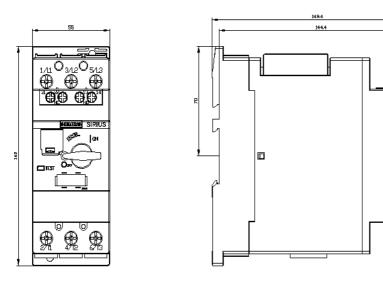
operation grows • at 200 Y rated value 11 kW - at 200 Y rated value 15 kW - at 200 Y rated value 22 kW - at 200 Y rated value 20 kW - at 200 Y rated value 20 kW - at 200 Y rated value 20 kW - at 200 Y rated value 18 kW - at 200 Y rated value 20 kW operation for anarinum 15 1m - at 200 Y rated value 20 kW operation current of auxiliary contacts 1 1 - at 200 Y rated value 20 kW operation current of auxiliary contacts at AC 15 1 - at 20 V rated value 20 k - at 20 V 0.05 A operation current of auxiliary contacts at DC -13 1 - at 20 V rated value 0.05 A - at 20 V rated value 0.05 A - at 20 V rated value 0.05 A - at 20 V rated value 0.05 A <td>• at AC-3 at 400 V rated value</td> <td>36 A</td>	• at AC-3 at 400 V rated value	36 A
• AC3• W- at 400 V rated value15.5 W- at 600 V rated value20 W- at 600 V rated value20 W- at 600 V rated value20 W- at 600 V rated value30 W• at 600 V rated value11 W- at 600 V rated value20 W- at 600 V rated value16 10- at 600 V rated value10 0- at 600 V rated value60 A- at 600 V rated value60 A- at 600 V rated value60 A- at 600 V rated value10 A- at 600 V rated value10 A- at 600 V rated value0.15 A- at 70 V Contects for auxillary contects at DC 13- at 70 V0.15 A- at 70 V0.15 A- at 70 V0.15 A- at 70 V0.15 A- at 70 V0.16 A- at 70 V rated value10 A- at 70 V rated value <td></td> <td>30 A</td>		30 A
 at 500 V rade value - at 620 V rade value - at 600 V rade value -	— at 230 V rated value	11 kW
	— at 400 V rated value	18.5 kW
• al AC-3e>- al C30 V rade value18 8 kV- al C30 V rade value28 kV- al C30 V rade value30 kVoperating frequency15 1/h- al C3- maximum15 1/h- al C3- maximum15 1/h- al C3- maximum15 1/h- al C3- maximum15 1/h- al C3- maximum10 k- al C3- W0.8- al C3- W med value0.8- al C3- W med value0.8- al C3- W med value0.8- al C3- W value value0.8 </td <td>— at 500 V rated value</td> <td>22 kW</td>	— at 500 V rated value	22 kW
	— at 690 V rated value	30 kW
- al 400 V faled value18.5 kW- al 500 V raied value22 kW- al 600 V raied value30 kWoperating frequency15 1/n- al AC-3e maximum15 1/n- al AC-3e maximum15 1/nAnnilary circuitIncome the auxiliary southdesign of the auxiliary southIncome the auxiliary contactsnumber of NC contacts for auxiliary contacts1operational current of auxiliary contacts at AC-151- al 24 V0.5 Aoperational current of auxiliary contacts at DC-13 al 24 V0.5 Aoperational current of auxiliary contacts at DC-13 al 24 V0.5 A- al 24 V0.5 A- al 24 V0.5 A- al 24 V0.4 A- al 24 V V tated value0.4 A- al 24 V V tated value0.	• at AC-3e	
at 500 V rated value22 kW at 650 V rated value30 kWOperating frequency15 1/n• at AC-3 maximum15 1/nAuxiliary curcuittame rateAuxiliary curcuit1Auxiliary curcuit1Auxiliary curcuit1Auxiliary curcuit of auxiliary contacts1Operational current of auxiliary contacts at AC-15-• at 24 V2A• at 24 V0.5 A• at 24 V0.5 A• at 24 V0.5 A• at 24 V0.5 A• at 24 V0.6 A• at 25 V0.7 A• at 26 V0.8 A• at 25 V0.8 A• at 25 V0.8 A• at 25 V0.8 A• at 26 V0.8 A• at 26 V0.8 A• at 27 V0.8 A• at 28 V at 28 V at 28 AParental• at 28 V at 28 V at 28 AParental• at 28 V At 28 V at 28 AParental• at 28 V At 28 V at 28 AParental• at 28 V at 28 V at 28 AParental• at 28 V at 28 V at 28 AParental• at 280 V rated value30 kA• at 380 V rated value36 A• at 380 V rated value36 A </td <td>— at 230 V rated value</td> <td>11 kW</td>	— at 230 V rated value	11 kW
→ at 869 V rated value 30 kW operating frequency 1 • at AC-3s maximum 15 1/h • at AC-3s maximum 15 1/h Obsign of the auxiliary switch Hansverse number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 - • at 24 V 2A • at 24 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 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 auxiliary contacts at DC-13 - • at 20 V 0.7 A • at 210 V 0.6 A • at 220 V 0.7 A • at 220 V 0.7 A • opical fail didection Yes trip class CLASS 10 design of the overload release 100 kA • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 260 V rated value 100 kA • at AC at 260 V	— at 400 V rated value	18.5 kW
operating frequency• at ACS maximum15 1/h• at ACS maximum15 1/hAuxliary cricuit15 1/hAuxliary cricuitransversenumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1operational current of auxiliary contacts at AC-15•• at 24 V2 A• at 25 V0 A• at 26 V0 A• at 25 V0 A• at 26 V0 A• at 27 V0 A• at 280 V at 280 V at 280 V0 A• at 280 V at 280 V at 280 V0 A• at 280 V at 280 V at 280 V0 A• at 280 V at 280 V at 280 V at 280 V0 A• at AC at 580 V rated value10 kA• at AC at 580 V rated value100 kA• at AC at 580 V rated value100 kA• at AC at 580 V rated value100 kA• at AC at 580 V rated value20 A• at 480 V rated value100 kA• at AC at 580 V rated value36 A• at 480 V rated value36 A• at 680 V rated value36 A	— at 500 V rated value	22 kW
i At AC-3 maximum15 1h15 1hAutilary circuitIanswarseAutilary circuitIanswarsenumber of NC contacts for auxiliary contacts1Operational current of auxiliary contacts at AC-151eit 24 V2 Aeit 23 V0.5 Aoperational current of auxiliary contacts at DC-131eit 24 V1 Aeit 25 V0.5 Aoperational current of auxiliary contacts at DC-131eit 25 V0.4 Aeit 26 V0.4 Aeit 27 V0.4 Aeit 28 V0.4 Aeit 10 V0.4 Aeit 28 V0.4 Aeit 29 V0.4 Aeit 20 V rated value100 IAeit 20 V rated value100 IAeit 20 V rated value100 IAeit 20 V rated value200 IAeit 20 V rated value200 IAeit 20 V rated value200 IAeit 20 V rated value30 IAeit 20 V rated value36 Aeit 200 V rated value36 Aeit 400 V rated value36 Aeit 48	— at 690 V rated value	30 kW
• at AC-3e maximum15 hhAuxilary circuitIanswerseedisgin of the auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1edit 24 V2 Aedit 24 V2 Aedit 24 V1 Aedit 24 V0 Aoperational current of auxiliary contacts at DC-13-edit 24 V1 Aedit 24 V0 Aedit 25 V0 Aedit 26 V0 Aedit 27 V0 Aedit 28 V0 Aedit 29 V0 Aedit 20 V0 Aedit 20 V0 Aedit 24 V0 Aedit 25 V0 Aedit 26 V0 Aedit 27 V0 Aedit 28 V0 Aedit 29 V0 Aedit 20 V0 Aedit 20 V0 Aedit 20 V0 Aedit 20 V rade value100 kAedit 40 V rade value00 kAedit 40 V rade value00 kAedit 40 V rade value100 kAedit 50 V rade value50 kAedit 500 V rade value50 kAedit 600 V rade value60 kAedit 600 V rade value60 kAedit 600 V rade	operating frequency	
Auxiliary circuit tanswerse design of the auxiliary switch tanswerse number of KC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 i • at 24 V 2 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13 i • at 24 V 1 A • at 24 V 0 A • at 22 V 0 A • at 220 V at 200	• at AC-3 maximum	15 1/h
design of the auxiliary switch transverse numbor of NC contacts for auxiliary contacts 1 opprational current of auxiliary contacts at AC-15 1 • at 24 V 2 A • at 250 V 0.5 A opprational current of auxiliary contacts at DC-13 1 • at 26 V 0.5 A opprational current of auxiliary contacts at DC-13 1 • at 24 V 0.5 A • at 26 V 0.6 A • at 25 V 0 A • at 25 V 0 A • at 25 V 0 A • at 20 V 0 A Product function No • phase failure detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (lcu) • at AC at 400 V rated value • 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 AC at 600 V rated value 100 kA • at AC at 600 V rated value 100 kA • at AC at 600 V rated value 10 kA	• at AC-3e maximum	15 1/h
design of the auxiliary switch transverse numbor of NC contacts for auxiliary contacts 1 opprational current of auxiliary contacts at AC-15 1 • at 24 V 2 A • at 250 V 0.5 A opprational current of auxiliary contacts at DC-13 1 • at 26 V 0.5 A opprational current of auxiliary contacts at DC-13 1 • at 24 V 0.5 A • at 26 V 0.6 A • at 25 V 0 A • at 25 V 0 A • at 25 V 0 A • at 20 V 0 A Product function No • phase failure detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (lcu) • at AC at 400 V rated value • 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 AC at 600 V rated value 100 kA • at AC at 600 V rated value 100 kA • at AC at 600 V rated value 10 kA	Auxiliary circuit	
number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 eat 24 V 2A • at 230 V 0.5 A Operational current of auxiliary contacts at DC-13 - • at 24 V 1A • at 24 V 0.5 A operational current of auxiliary contacts at DC-13 - • at 26 V 0.5 A • at 10 V 0 A • at 125 V 0 A • at 125 V 0 A • at 220 V 0 A • at 220 V 0 A • orgrund fault detection Vestication • ground fault detection Yes • phase failure detection Yes • at AC at 240 V rated value 100 kA • at AC at 440 V rated value 100 kA • at AC at 490 V rated value 100 kA • at AC at 490 V rated value 100 kA • at AC at 490 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA • at AC at 900 V rated value 100 kA </td <td></td> <td>transverse</td>		transverse
number of NO contacts for auxiliary contacts at AC-19 • at 24 V 2 A • at 23 0 V 0.5 A operational current of auxiliary contacts at DC-13 - • at 24 V 1 A • at 60 V 0.15 A • at 125 V 0 A • at 125 V 0 A • at 22 V 0 A • at 220 V 0 A • product function Ves • ground fault detection No • plases failure detection Ves trip class CLASS 10 detail of 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 650 V rated value 100 kA • at AC at 650 V rated value 100 kA • at AC at 650 V rated value 100 kA • at AC at 600 V rated value 100 kA • at AC at 600 V rated value 100 kA • at		
operational current of auxiliary contacts at AC-152 A• at 24 V2 A• at 230 V0.5 Aoperational current of auxiliary contacts at DC-131 A• at 60 V0.15 A• at 24 V1 A• at 25 V0 A• at 25 V0 A• at 250 V0 A• at 250 V0 AProtective and monitoring functionsproduct function• ground fault detection• ground fault detection• ground fault detection• at AC at 240 V rated value• at AC at 500 V rated value• at 400 V rated value• at 400 V rated value• at 600 V rat		
• at 24 V 2 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13		
• at 230 ∨0.5 Åoperational current of auxiliary contacts at DC-137• at 24 ∨1.4• at 60 ∨0.15 Å• at 10 ∨0.4• at 110 ∨0.4• at 125 ∨0.4• at 220 ∨0.4Protect functionNo• ground fault detectionNo• product functionYes• the overload releasethermalmaximum short-circuit current breaking capacity (Icu)100 kÅ• at AC at 240 ∨ rated value65 kÅ• at AC at 240 ∨ rated value100 kÅ• at AC at 600 ∨ rated value65 kÅ• at AC at 600 ∨ rated value100 kÅ• at AC at 600 ∨ rated value5 kÅ• at AC at 600 ∨ rated value100 kÅ• at AC at 600 ∨ rated value5 kÅ• at AC at 600 ∨ rated value30 kÅ• at 600 ∨ rated value5 kÅ• at 600 ∨ rated value5 kÅ• at 600 ∨ rated value30 kÅ• at 600 ∨ rated value6 Å• at 600 ∨ rated value6 Å• at 600 ∨ rated value30 kÅ• at 600 ∨ rated value6 Å• at 600 ∨ rated value6 Å• at 600 ∨ rated value36 Å• at 600 ∨ rated value3 hp• at 600 ∨ rated value5 hp• at 600 ∨ rated value5 hp• at 6000 ∨ rated value5 hp		2 A
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• at 24 V1 A• at 60 V0.15 A• at 10 V0 A• at 125 V0 A• at 220 V0 A• at 220 V0 AProtective and monitoring functionsproduct functionVes• product function100 kA• pipase failure detection100 kA• at AC at 240 V rated value65 kA• at AC at 400 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 680 V rated value30 kA• at 400 V rated value30 kA• at 600 V rated value30 kA• at 600 V rated value36 A• at 600 V rated value30 A• at 600 V rated value30		0.077
• at 60 ∨0.15 Å• at 110 ∨0 Å• at 125 ∨0 Å• at 125 ∨0 Å• at 220 ∨0 ÅProtect function0 Å• ground fault detectionNo• pipase failure detectionYes• for or fault of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)0 Å Å• at AC at 240 ∨ rated value60 ÅA• at AC at 240 ∨ rated value60 ÅA• at AC at 240 ∨ rated value100 ÅA• at AC at 500 ∨ rated value100 ÅA• at AC at 500 ∨ rated value30 ÅA• at 4C at 600 ∨ rated value100 ÅA• at 4C at 600 ∨ rated value30 ÅA• at 4C at 600 ∨ rated value30 ÅA• at 4C or at 600 ∨ rated value30 ÅA• at 400 ∨ rated value30 ÅA• at 600 ∨ rated value36 Å• at 600 ∨ rated value30 ÅA• at 600 ∨ rated value30 ÅA• at 600 ∨ rated value30 ÅA• at 600 ∨ rated value36 Å• at 600 ∨ rated value36 Å• at 600 ∨ rated value30 ÅA• at 6		1 Δ
• at 110 V0 A• at 125 V0 A• at 220 V0 AProduct function0• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (icu)100 kA• at AC at 240 V rated value65 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value30 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value5 kA• at AC at 500 V rated value5 kA• at 800 V rated value3 hA• at 800 V rated value3 hA• at 800 V rated value3 hD• at 400 V rated value15 hD• at 200208 V rated value15		
• at 125 V0 A• at 220 V0 AProtective and monitoring functionsProduct function• ground fault detectionNo• phase failure detectionCLASS 10design of the overload releasethermaimaximum short-circuit current breaking capacity (Icu)CLASS 10• at AC at 240 V rated value100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value20 kA• at 40 V rated value30 kA• at 400 V rated value30 kA• at 400 V rated value30 kA• at 400 V rated value36 A• at 400 V rated value30 h• at 400 V rated value30 h<		
• at 220 V0 AProduct functionsProduct function• ground fault detectionNo• phase failure detectionYesfrip classCLASS 10design of the overload releasethermalmaximum 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 value100 kA• at AC at 600 V rated value100 kA• at AC at 600 V rated value20 kA• at 240 V rated value20 kA• at 420 V rated value100 kA• at 420 V rated value20 kA• at 420 V rated value20 kA• at 420 V rated value50 kA• at 4500 V rated value30 kA• at 6800 V rated value36 A• at 6800 V rated value3 hp• at 100 //20 V rated value3 hp• at 110/120 V rated value3 hp• at 2200 V rated value15 hp• at 2200/200 V rated value15 hp• at 2200/200 V rated value15 hp• at 2200/200 V rated value16 hp• at 2200/200 V rated value16 hp• at 2200/200 V rated value16 hp• at 2200/200		
Protective and monitoring functions product function No • ground fault detection Yes • 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 65 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 65 kA • at AC at 500 V rated value 100 kA • at AC at 600 V rated value 5 kA • at AC at 400 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 20 kA • at 400 V rated value 20 kA • at 600 V rated value 30 kA • at 600 V rated value 36 A • at 600 V rated value 36 A • at 480 V rated value 36 A • at 480 V rated value 36 A • at 600 V rated value 36 A • at 600 V rated value 36 A • at 600 V rated value 36 A • at 320 V rated val		
product function No • 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 500 V rated value 10 kA • at AC at 500 V rated value 4 kA operating short-circuit current breaking capacity (Ics) at AC 100 kA • at 420 V rated value 100 kA • at 420 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 100 kA • at 600 V rated value 100 kA • at 600 V rated value 30 kA • at 600 V rated value 2 kA response value current of instantaneous short-circuit trip unit 520 A UL/CSA ratings 100 kA • at 600 V rated value 36 A • at 600 V rated value 36 A • at 600 V rated value 3 hp - at 200 V rated value 3 hp - at 200 V rated value 3 hp - at 200 V rated value 3 hp - at 200/208 V rated value 15 hp - at 200/208 V		U A
• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethemalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 500 V rated value65 kA• at AC at 680 V rated value10 kA• at AC at 680 V rated value100 kA• at AC at 680 V rated value20 kA• at AC at 680 V rated value30 kA• at 800 V rated value20 kA• at 800 V rated value30 kA• at 600 V rated value20 AUL/CSA ratings20 AUL/CSA ratings36 A• at 600 V rated value36 A• at 600 V rated value3 hp- at 200/200 V rated value3 hp- at 200/200 V rated value3 hp- at 200/200 V rated value5 hp- at 200/200 V rated value5 hp- at 460/480 V rated value30 hp- at 200/200 V rated value5 hp- at 460/480 V rated value50 hp- at 460/480 V rated value50 hp-		
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trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value30 kA• at 400 V rated value30 kA• at 400 V rated value2 kA• at 690 V rated value2 kA• at 690 V rated value30 kA• at 690 V rated value36 A• at 690 V rated value36 A• at 600 V rated value36 A• at 600 V rated value3 hp- at 110/120 V rated value3 hp- at 230 V rated value3 hp- at 230 V rated value15 hp• for 3-phase AC motor15 hp- at 200/208 V rated value15 hp- at 200/208 V rated value15 hp- at 460/400 V rated value40 hp		
design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)thermal• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 500 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 400 V rated value30 kA• at 400 V rated value30 kA• at 600 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 AUL/CSA ratings36 A• at 480 V rated value36 A• at 200 V rated value10 kA• at 600 V rated value36 A• at 600 V rated value36 A• at 200 V rated value3 hp- at 200 V rated value15 hp- at 200208 V rated value15 hp- at 200208 V rated value15 hp- at 200208 V rated value30 hp- at 460/480 V rated value30 hp- at 460/480 V rated value30 hp- at 200208 V rated value15 hp- at 200208 V rated value30 hp- at 575/600 V rated value30 hp- at 575/600 V rated value40 hp	· · ·	
maximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 690 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 400 V rated value30 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value36 A• at 480 V rated value100 kA• at 200/200 V rated value100 kA• at 200/200 V rated value100 kA• at 220/230 V rated value15 hp• at 220/230 V rated value15 hp• at 400/480 V rated value30 hp• at 400/480 V rated value30 hp• at 400/480 V rated value30 hp• at 400/480 V rated value40 hp	trip class	CLASS 10
• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 690 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC		thermal
• at AC at 400 V rated value 65 kA • at AC at 500 V rated value 10 kA • at AC at 690 V rated value 4 kA operating short-circuit current breaking capacity (Ics) at AC - • at 240 V rated value 100 kA • at 240 V rated value 30 kA • at 690 V rated value 30 kA • at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 520 A UL/CSA ratings - full-load current (FLA) for 3-phase AC motor - • at 600 V rated value 36 A • at 600 V rated value 36 A • at 600 V rated value 3 hp • at 230 V rated value 15 hp • at 200/230 V rated value 15 hp • at 220/230 V rated value 30 hp	maximum short-circuit current breaking capacity (lcu)	
• 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 400 V rated value30 kA• at 600 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit20 AULCSA ratingsfull-load current (FLA) for 3-phase AC motor• at 600 V rated value36 A• at 600 V rated value36 A• at 600 V rated value36 A• at 480 V rated value36 A• at 480 V rated value36 A• at 200 Z rated value36 A• at 200 V rated value10 hp• at 200 V rated value3 hp- at 110/120 V rated value3 hp- at 200/280 V rated value15 hp- at 200/280 V rated value15 hp- at 200/280 V rated value15 hp- at 460/480 V rated value30 hp- at 460/480 V rated value40 hp	 at AC at 240 V rated value 	100 kA
• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC00 kA• at 240 V rated value100 kA• at 400 V rated value30 kA• at 600 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value36 A• at 600 V rated value36 Avielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value3 hp- at 230 V rated value7.5 hp• for 3-phase AC motor- at 220/230 V rated value15 hp- at 460/480 V rated value30 hp- at 460/480 V rated value30 hp	 at AC at 400 V rated value 	65 kA
operating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 400 V rated value30 kA• at 600 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value36 A• at 480 V rated value36 A• at 600 V rated value36 A• at 600 V rated value36 A• of or single-phase AC motor	 at AC at 500 V rated value 	10 kA
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		7.5 np
		45 hz
- at 575/600 V rated value 40 hp		
	— at 460/480 V rated value	30 hp
contact rating of auxiliary contacts according to UL C300 / R300		
	— at 575/600 V rated value	40 hp

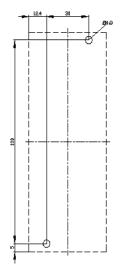
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jession of the fue link for I network for short-circuit none required • # 1240 V none required • • # 100 V 100 • • # 100 V 100 • • # 100 V 00 • # 100 V 00 mm	design of the fuse link			
protection of the main circuitIncrease required• it 260 V125• it 660 V100• it 660 V00Installation mounting dimensionserrew and anap-on mounting anto 38 mm DIN rail according to DIN EN 80715Insight140 rmfasteming methodserve and anap-on mounting anto 38 mm DIN rail according to DIN EN 80715Insight140 rmvidth55 mmGegeth0 mm• vidth side by died mounting at the side0 mm• vidth side by died mounting at the side0 mm• outwards50 mm- outwards50 mm <td> for short-circuit protection of the auxiliary switch required </td> <td colspan="3">fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)</td>	 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)		
• a: 240 Vnone required• a: 600 V125• a: 600 V80• a: 600 V80• a: 600 V80• a: 600 V80• a: 600 V90• 600 V <t< td=""><td></td><td></td></t<>				
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mounting position ary fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 55 mm depth 190 mm required spacing 0 mm • with side by-side mounting at the side 0 mm • or grounded parts at 400 V 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 400 V - - downwards 50 mm - at the side 10 mm • for grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - at the side 10 mm for ire parts at 680 V - <td></td> <td></td>				
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tightening torque	- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)		
• for main contacts with screw-type terminals 3 4.5 N·m	tightening torque			
	 for main contacts with screw-type terminals 	3 4.5 N·m		

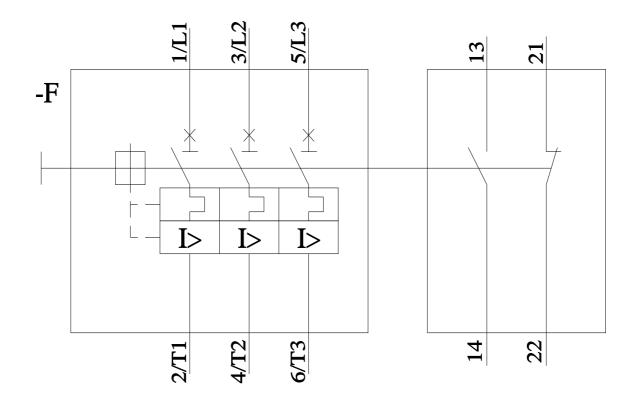
 for auxiliary containing 	acts with screw-type terminal	ls 0.8	1.2 N·m			
design of screwdriver shaft			meter 5 to 6 mm			
size of the screwdriver tip			Pozidriv size 2			
design of the thread o	f the connection screw					
for main contacts			M6			
 of the auxiliary ar 	nd control contacts	M3	M3			
Safety related data						
B10 value						
 with high demand 	d rate according to SN 31920	50	00			
proportion of dangero	ous failures					
 with low demand 	rate according to SN 31920	50	50 %			
 with high demand 	d rate according to SN 31920	50	%			
failure rate [FIT]						
 with low demand 	rate according to SN 31920	50	FIT			
T1 value for proof test in 61508	nterval or service life accordi	ng to IEC 10	а			
protection class IP on	the front according to IEC	60529 IP2	0			
touch protection on th	ne front according to IEC 6	0529 fing	er-safe, for vertical contact	from the front		
display version for swite	ching status	Ha	ndle			
Certificates/ approvals						
General Product App	roval				For use in hazard- ous locations	
CCC	Confirmation	(UL) UL	KC	EHC	IECEx	
For use in hazard- ous locations	Declaration of Conformi	ty	Test Certificates		Marine / Shipping	
K ATEX	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyd's Register us	PRS	RINA	<u>Confirmation</u>	
other	Railway					
UDE VDE	Vibration and Shock	<u>Confirmation</u>				

Further information

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=3RV2031-4PA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4PA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4PA15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4PA15&objecttype=14&gridview=view1







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