SIEMENS

Data sheet

3RV2021-1BA10

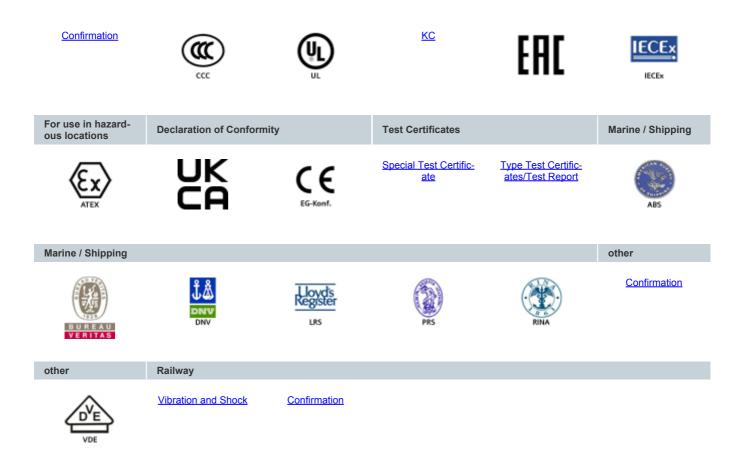


Circuit breaker size S0 for motor protection, CLASS 10 A-release 1.4...2 A N-release 26 A screw terminal Standard switching capacity

4/12 6/13	
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 	7.25 W
 at AC in hot operating state per pole 	2.4 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
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	1.4 2 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	2 A
operational current	

• # AC3 at A00 V rate value 2 A operating power 2 A • # AC3 at A00 V rate value 2 A • • # AC3 At A00 V rate value 0 A WW • • # AC3 OV rate value 0 B WW • • # AC3 OV rate value 0 B WW • • # AC3 OV rate value 0 B WW • • # AC3 OV rate value 0 B WW • • # AC3 OV rate value 0 B WW • • # AC3 OV rate value 0 B WW • • # AC3 maximum 0 B WW • • # AC3 maximum 1 1 NW • • # AC3 maximum 0 N • • # AC3 maximam 0 N • • # AC3 maximam 0 N • # GA0 M And V rated val		
operating prover at 200 Vrated value 0.4 kW at 200 Vrated value 0.4 kW at 200 Vrated value 0.8 kW at 200 Vrated value 0.8 kW at 200 Vrated value 0.4 kW at 200 Vrated value 0.4 kW at 200 Vrated value 0.8 kW at 200 Vrated value 0.0 Vrated value	 at AC-3 at 400 V rated value 	2 A
• A C-3• W• at 400 Yrand value0.4 kW• at 400 Yrand value0.8 kW• at 400 Yrand value0.9 kW• at 400 Yrand value10.0 kA• at 400 Yrand value	 at AC-3e at 400 V rated value 	2 A
- at 200 Yindo Value04 WW- at 600 V rated Value08 WW- at 600 V rated Value08 WW- at 600 V rated Value04 WW- at 600 V rated Value04 WW- at 600 V rated Value08 WW- at 600 V rated Value01 WW- at 600 V rated Value00 VA- at 600 V rated Value01 VA- at 600 V rated Value010	operating power	
- af 400 V radet value0.8 kW- af 500 V radet value0.8 kW- af 400 V radet value0.4 kW- af 400 V radet value0.4 kW- af 400 V radet value0.8 kW- af 400 V radet value0.8 kW- af 400 V radet value0.8 kW- af 600 V radet value0.1 kW- af 600 V radet value100 kA- af 600 V radet value20 A- af 600 V radet value20 A- af 600 V radet value100 kA- af 600 V radet value100 kA <td< td=""><td>• at AC-3</td><td></td></td<>	• at AC-3	
at 500 V rided value0.8 kW at 600 V raded value0.4 kW at 230 V raded value0.4 kW at 230 V raded value0.8 kW at 500 V raded value0.8 kW at 500 V raded value0.8 kW at 600 V raded value1.1 kWoperating frequency1.1 kW at 600 V raded value1.1 kWoperating frequency1.1 kW	— at 230 V rated value	0.4 kW
	— at 400 V rated value	0.8 kW
• al AC-3e- al X30 V rade Value0.8 kW- al X50 V rade Value1.1 kWoperating frequencyI- al X6-3e maximum15 1/h- al X6-3e maximum0- al X6-3e maximum0- al X6-3e maximum0- antiber Of NC contacts for auxiliary contacts0- mumber of NC contacts for auxiliary contacts0- momber Of NC contacts for auxiliary contactsNo- extreme Of NC antel Value100 kA- extreme Of NC radet Value100 kA- extreme Of NC	— at 500 V rated value	0.8 kW
	— at 690 V rated value	1.1 kW
- at 500 Y rated value0.8 kW- at 500 Y rated value0.8 kW- at 600 Y rated value1.4 kWoperating frequency1.4 kW- at 600 Y rated value1.5 t/h- at 600 Y rated value0- at 600 Y rated value100 KA- at 600 Y rated value100 KA- at 610 Y rated value100 KA-	• at AC-3e	
- at 580 V rated value0.8 kW- at 680 V rated value1 kW- at 680 V rated value1 kW• at AC-3 maximum15 th• at AC-3 maximum15 thAuxiliary curcuit0number of NC contacts for auxiliary contacts0number of Co contacts for auxiliary contacts0product functionVes• priodul functionsVes• prioduct functionNo• prioduct functionVes• prioduct function100 kA• prioduct function100 kA• at AC at 200 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 640 V rated value100 kA• at AC at 640 V rated value100 kA• at 640 V rated value2A• at 640 V rated value100 kA•	— at 230 V rated value	0.4 kW
− al 800 V raido value 1.1 kW operating frequency 15 hh • al AC-Se maximum 15 hh • AC-Se maximum 15 hh • Authory contexts 0 • number of NC contacts for auxiliary contacts 0 • number of NC contacts for auxiliary contacts 0 • number of NC contacts for auxiliary contacts 0 • options final diselection Ves • options final diselection Ves • options final diselection Ves • options final diselection 100 kA • options final diselection 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at 400 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	— at 400 V rated value	0.8 kW
operating frequency 4 AC-3 maximum 15 1/h • at AC-3 maximum 0 number of NC contacts for auxiliary contacts 0 • product function 0 • opcund functions • Product function No • phase failure detection Yes • phase failure detection Yes • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 500 V rated value 100 kA • at 500 V r	— at 500 V rated value	0.8 kW
• at AC3 maximum15 i/n• at AC3 maximum15 i/n• AC43 maximum15 i/n• AC43 maximum15 i/n• Autliary circles0• number of NC contacts for auxiliary contacts0• number of AC contacts for auxiliary contacts0• number of AC contacts for auxiliary contacts0• product functionNo• product functionCLASS 10• phase failure detectionCLASS 10• phase failure detection100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at AC at 600 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value10 kB	— at 690 V rated value	1.1 kW
a half a base maximum15 hhAuxiliary cortacts for auxiliary contacts0number of NG contacts for auxiliary contacts0number of NG contacts for auxiliary contacts0product function0report of full detectionNo• orgound final detectionNo• orgound final detectionCLASS 10design of the overtoad releasethermalmaximum short-circuit current breaking capacity (teu)100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value100 kA• at 400 V rated value2A• at 400 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value2A• at 400 V rated value11 hp• at 400 V rated value11 hp• at 400 V rated value11 hp• a	operating frequency	
Auxiliary circuit 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 product function 0 orgenund fault detection Ves orgenund fault detection Yes trip class CLASS 10 design of the coreload release thermal maximum short-circuit current breaking capacity (tou) 41 AC at 40V Yrated value et AC at 400 V rated value 100 KA et AC at 400 V rated value 100 KA et AC at 400 V rated value 100 KA et AC at 400 V rated value 100 KA et AC at 400 V rated value 100 KA et AC or rated value 100 KA et AC 0 rated value 2 A et AC 0 rated value 2 A <td>• at AC-3 maximum</td> <td>15 1/h</td>	• at AC-3 maximum	15 1/h
number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 product function 0 ergrund fault detection No • product function Yes trip class CLASS 10 design of the overload release thermal maximum short-tircuit current breaking capacity (Icu) 100 kA • at Ac at 200 V rated value 100 kA • at Ac at 500 V rated value 100 kA • at Ac at 500 V rated value 100 kA • at 40 V rated value 100 kA • at 600 V rated value 2A • at 600 V rated value 2A • at 600 V rated value 2A • at 600 V rated value 10 kA • at 600 V rated value 10 kA	● at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 product function 0 ergrund fault detection No • product function Yes trip class CLASS 10 design of the overload release thermal maximum short-tircuit current breaking capacity (Icu) 100 kA • at Ac at 200 V rated value 100 kA • at Ac at 500 V rated value 100 kA • at Ac at 500 V rated value 100 kA • at 40 V rated value 100 kA • at 600 V rated value 2A • at 600 V rated value 2A • at 600 V rated value 2A • at 600 V rated value 10 kA • at 600 V rated value 10 kA	Auxiliary circuit	
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 Productive and monitoring functions 0 product function No • ground fault detection Yes trip class CLASS 10 design of the overload release Dermail maximum short-circuit current breaking capacity (fcu) • at AC at 240 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 400 V rated value 100 kA • at AC or rated value 100 kA • at AC or rated value 100 kA • at 400 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 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 1 hp • at 600 V r		0
number of CO contacts for auxiliary contacts 0 Product function or dual detection No • ground fault detection Yes • trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (tcu) • at AC at 400 V rated value • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 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 500 V rated value 100 kA • at AC at 600 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 0.13 hp • for single-phase AC motor <td></td> <td></td>		
Protective and monitoring functions product function • ground fault detection • phase failure detection Yes 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 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 00 kA • at AC at 500 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 0 ka • at 600 V rated value • at 75000 V rated value • at 604040 V rated value		
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) • at AC at 240 V rated value • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 680 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 0.13 hp • for 3-phase AC motor 1 hp • at 427500 V rated value 1 hp Short-circuit protection Yes design of the short-circuit trip magnetic Instaltion/ mounting 0 rimensions any fastening method an		
• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)i• at A Cat 240 V rated value100 kA• at A Cat 600 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 600 V rated value2 A• for singe-phase AC motor2 A at 230 V rated value0.13 hp• for 3-phase AC motor1 hp at 240/80 V rated value1 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticInstall.con/ mounting dimensionsaryfastening method45 mm• for singe-by-side mounting according to DIN EN 60715i feight97 mm <td></td> <td></td>		
• phase failure detection Yes trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (Icu) 00 kA • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 650 V rated value 100 kA • at AC at 650 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 2A • at 600 V rated value 10 kA • at 600 V rated value 10 kA • at 600 V rated value 2A • at 600 V rated value 1 hp • at 60/400 V rated va	•	No
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 400 V rated value 100 kA • at AC at 500 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 400 V rated value 100 kA • at 600 V rated value 10 kA • at 600 V rated value 2 A • at 600 V rated value 1 hp • for 3-phase AC motor 1 hp at 450/480 V rated value 1 hp at 675/600 V rated value 1 hp - at 675/600 V rated value 1 hp ford-tricit protection Yes <tr< td=""><td></td><td></td></tr<>		
design of the overload release thermal maximum short-circuit current breaking capacity ((cu) • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • at AC at 500 V rated value • at AC at 500 V rated value 100 kA • at AC at 660 V rated value • at AC at 660 V rated value 100 kA • at AC at 650 V rated value • at 240 V rated value 100 kA • at 400 V rated value • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 500 V rated value 100 kA • at 600 V rated value 100 kA • at 600 V rated value 20 kA • at 600 V rated value 2 A • at 600 V rated value 1 hp • at 575/600 V rated value 1 hp • at 575/600 V rated va	· · · · · · · · · · · · · · · · · · ·	
maximum short-circuit current breaking capacity (lcu) if AC at 240 V rated value 100 kA if AC at 300 V rated value 100 kA if AC at 600 V rated value 20 A if AC at 600 V rated value 20 A if AC at 600 V rated value 20 A if AC at 600 V rated value 20 if AC at 600 V rated value 100 kA if AC at 600 V rated value 100 kA if AC at 600 V rated value 20 if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rated value 10 kA if AC at 600 V rat	-	
• at AC at 240 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 10 kA operating short-circuit current breaking capacity (Ics) at AC 10 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 600 V rated value 20 A ///CSA ratings 100 kA • at 600 V rated value 2 A • at 600 V rated value 0.13 hp • for single-phase AC motor 1 hp - at 4200 V rated value 1 hp • at 600 V rated value 1 hp • at 55/600 V ra		ulema
• at AC at 400 V rated value100 kA• at AC at 500 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 600 V rated value10 kAresponse value current of instantaneous short-circuit trip unit26 AUL/CSA ratings100 kA• at 480 V rated value2 A• at 600 V rated value10 kAresponse value current (FLA) for 3-phase AC motor2 A• at 600 V rated value2 A• at 600 V rated value10 kA• at 600 V rated value1 hp• at 600 Hort incult protectionscrew and snap-on mounting onto 35		100 //4
• at AC at 500 V rated value 100 kA • at AC at 690 V rated value 10 kA operating short-circuit current breaking capacity (ics) at AC 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 690 V rated value 10 kA response value current of instantaneous short-circuit trip unit 26 A UL/CSA ratings 2 full-load current (FLA) for 3-phase AC motor 2 • at 600 V rated value 2 A vielded mechanical performance [tp] • (n's nigle-phase AC motor - at 20 V rated value 0.13 hp • for 3-phase AC motor - at 600/480 V rated value - at 400/480 V rated value 1 hp - at 450/5600 V rated value 1 hp - at 575/600 V rated value 1 hp short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions screw and snap- on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm		
• at AC at 680 V rated value 10 kA operating short-circuit current breaking capacity (Ics) at AC 100 kA • at 440 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 10 kA response value current of instantaneous short-circuit trip unit 26 A ///CSA ratid value 2 A • at 600 V rated value 0.13 hp • for 3-phase AC motor - - at 230 V rated value 1 hp - at 57600 V rated value 1 hp Short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 0 mm		
operating short-circuit current breaking capacity (Ics) at AC 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 100 kA • at 600 V rated value 10 kA • at 600 V rated value 10 kA response value current of instantaneous short-circuit trip unit 26 A UL/CSA ratings 10 kA full-load current (FLA) for 3-phase AC motor 4 4 400 V rated value • at 600 V rated value 2 A • at 600 V rated value 0.13 hp • for 3-phase AC motor - - at 450/480 V rated value 1 hp - at 450/480 V rated value 1 hp - at 57/600 V rated value 1 hp Short-circuit protection Yes design of the short-circuit rip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm		
 at 240 V rated value 100 kA at 400 V rated value 100 kA at 600 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 10 kA at 690 V rated value 10 kA at 690 V rated value 10 kA Instantaneous short-circuit trip unit 2 A 3 hp 4 for 3-phase AC motor - at 230 V rated value 0.13 hp 4 60/480 V rated value 1 hp - at 575/600 V rated value 1 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm requir		10 KA
• at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 690 V rated value 10 kA response value current of instantaneous short-circuit trip unit 26 A U/CSA ratings 24 full-load current (FLA) for 3-phase AC motor 2 A • at 480 V rated value 2 A • at 600 V rated value 0.13 hp • for 3-phase AC motor - - at 230 V rated value 0.13 hp • for 3-phase AC motor - - at 460/480 V rated value 1 hp - at 575/600 V rated value 1 hp - at 575/600 V rated value 1 hp ford-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm width side-by-side mounting at the side 0 mm		
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• at 690 V rated value10 kAresponse value current of instantaneous short-circuit trip unit26 AUL/CSA ratings2full-load current (FLA) for 3-phase AC motor2 A• at 480 V rated value2 A• at 600 V rated value2 Ayielded mechanical performance [hp]0.13 hp• for single-phase AC motor0.13 hp- at 230 V rated value0.13 hp• for 3-phase AC motor1 hp- at 460/480 V rated value1 hp- at 455/600 V rated value1 hpShort-circuit protectionYesgesign of the short circuit tripmagneticInstallation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mmdepth97 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V0 mm		
response value current of instantaneous short-circuit trip unit 26 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 2 A at 600 V rated value 2 A i of or single-phase AC motor at 230 V rated value 0.13 hp for 3-phase AC motor at 460/480 V rated value 0.13 hp for 3-phase AC motor		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 2 A • at 600 V rated value 2 A vielded mechanical performance [hp] 6 • for single-phase AC motor 0.13 hp • at 600 V rated value 0.13 hp • for 3-phase AC motor - - at 450/480 V rated value 1 hp - at 450/480 V rated value 1 hp - at 450/480 V rated value 1 hp Short-circuit protection Yes design of the short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm		
full-load current (FLA) for 3-phase AC motor 2 A • at 800 V rated value 2 A • at 600 V rated value 2 A yielded mechanical performance [hp] 6 • for single-phase AC motor 0.13 hp - at 230 V rated value 0.13 hp • for 3-phase AC motor - - at 450/480 V rated value 1 hp - at 450/480 V rated value 1 hp - at 575/600 V rated value 1 hp Short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm		26 A
• at 480 V rated value2 A• at 600 V rated value2 Ayielded mechanical performance [hp]2 A• for single-phase AC motor0.13 hp- at 230 V rated value0.13 hp• for 3-phase AC motor1 hp- at 460/480 V rated value1 hp- at 450/480 V rated value1 hp- at 575/600 V rated value1 hpShort-circuit protectionYesproduct function short circuit protectionYesInstallation/ mounting/ dimensionsanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mmdepth97 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V0 mm		
• at 600 V rated value2 Ayielded mechanical performance [hp]		
yielded mechanical performance [hp]	 at 480 V rated value 	
 for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value hp at 575/600 V rated value hp at 575/600 V rated value hp Short-circuit protection yroduct function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width depth 97 mm required spacing with side-by-side mounting at the side for grounded parts at 400 V 		2 A
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at 575/600 V rated value1 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticInstallation/ mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mmdepth97 mmrequired spacing • with side-by-side mounting at the side • for grounded parts at 400 V0 mm	 for 3-phase AC motor 	
Short-circuit protection Yes product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm	— at 460/480 V rated value	1 hp
product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm	— at 575/600 V rated value	1 hp
design of the short-circuit trip magnetic Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm	Short-circuit protection	
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm	product function short circuit protection	Yes
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm	design of the short-circuit trip	magnetic
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm	mounting position	any
height 97 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm		
depth 97 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 0 mm		
required spacing • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V		
with side-by-side mounting at the side o mm for grounded parts at 400 V	-	
	• with side-by-side mounting at the side	0 mm
		30 mm

 for live parts at 400 V downwards upwards at the side n for grounded parts at 500 V downwards upwards upwards upwards at the side n at the side backwards at the side <	nm) nm) nm mm) nm) nm) nm) nm) nm
- downwards30- upwards30- at the side9 m• for grounded parts at 500 V- downwards- upwards30- upwards30- at the side9 m• for live parts at 500 V- downwards- downwards30- upwards30- upwards30- upwards30- upwards30- at the side9 m• for grounded parts at 690 V- downwards- downwards50- upwards50- backwards0 m- forwards0 m• for live parts at 690 V- downwards- forwards50- upwards50- backwards0 m- forwards50- upwards50- onwards50- upwards50- onwards50- onwards50 <td>erw-type terminals</td>	erw-type terminals
upwards30at the side9 m• for grounded parts at 500 V30upwards30upwards30at the side9 m• for live parts at 500 V30	erw-type terminals
 at the side for grounded parts at 500 V downwards upwards at the side backwards at the side backwards at the side backwards at the side backwards at the side backwards at the side backwards at the side at the side backwards at the side at the side at the side at the side backwards at the side <	mm) mm) mm) mm) mm mm
• for grounded parts at 500 V 30 — downwards 30 — upwards 30 — at the side 9 m • for live parts at 500 V 30 — downwards 30 — upwards 30 — upwards 30 — at the side 9 m • for grounded parts at 690 V 30 — at the side 9 m • for grounded parts at 690 V 50 — upwards 50 — backwards 0 m — of onwards 50 — backwards 0 m • for live parts at 690 V - — downwards 50 — upwards 50 — upwards 50 — backwards 0 m — onnections/ Terminals 50 — for main current circuit scr arrangement of electrical connectors for main current To circuit scr scr • for main contacts _ scr — solid or stranded 2x _ — finely stranded with core end processing 2x	erw-type terminals
- downwards30- upwards30- at the side9 m• for live parts at 500 V30- downwards30- upwards30- at the side9 m• for grounded parts at 690 V downwards50- upwards50- backwards50- backwards0 m- at the side30- for wards0 m- for live parts at 690 V downwards50- backwards0 m- for live parts at 690 V downwards50- upwards50- upwards50- backwards0 m- at the side30- backwards0 m- for main current circuitscrarrangement of electrical connectors for main current circuitTotype of connectable conductor cross-sections • for main contacts2x- solid or stranded2x- finely stranded with core end processing2x• for AWG cables for main contacts2x• for main contacts with screw-type terminals2x. design of screwdriver shaftDia	erw-type terminals
upwards30	erw-type terminals
- at the side 9 m • for live parts at 500 V - downwards 30 - upwards 30 - at the side 9 m • for grounded parts at 690 V - downwards 50 - upwards 50 - backwards 0 m - at the side 30 - forwards 50 - forwards 50 - forwards 50 - backwards 50 - downwards 50 - forwards 50 - downwards 50 - forwards 50 - upwards 50 - backwards 0 m - at the side 30 - forwards 50 - backwards 0 m - at the side 30 - forwards 0 m - formain current circuit - solid or stranded 2x - finely stranded with core end processing 2x - for AWG cables for main contacts 2x - for main contacts with screw-type terminals 2x - formain contacts 10 m - forwards 0 m - forwards 0 m - forwards 0 m - forwards 0 m - formain contacts 10 m - forwards 0 m - formain contacts 10 m - formain contacts 10 m - forwards 0 m	mm) mm) mm mm) mm) mm mm mm
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- downwards30- upwards30- at the side9 m• for grounded parts at 690 V downwards50- upwards50- backwards0 m- at the side30- forwards0 m• for live parts at 690 V downwards50- upwards50- downwards50- forwards0 m• for live parts at 690 V downwards50- upwards50- upwards50- upwards50- backwards0 m- at the side30- forwards0 monnections/ Terminals0 mtype of electrical connectionfor main current circuit• for main current circuitscrarrangement of electrical connectors for main current circuitTotype of connectable conductor cross-sections • for main contacts2x- finely stranded with core end processing • for AWG cables for main contacts2xtightening torque • for main contacts with screw-type terminals2.design of screwdriver shaftDia	9 mm mm 9 mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm
	9 mm mm 9 mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm 9 mm mm
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	e mm mm rew-type terminals
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for main contacts	
solid or stranded 2x finely stranded with core end processing 2x • for AWG cables for main contacts 2x tightening torque • for main contacts with screw-type terminals 2 design of screwdriver shaft Dia	
— finely stranded with core end processing 2x • for AWG cables for main contacts 2x tightening torque 2 • for main contacts with screw-type terminals 2 design of screwdriver shaft Diagonal	
for AWG cables for main contacts 2x tightening torque for main contacts with screw-type terminals 2 design of screwdriver shaft Dia	: (1 2.5 mm²), 2x (2.5 10 mm²)
tightening torque 2 • for main contacts with screw-type terminals 2 design of screwdriver shaft Dia	: (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
• for main contacts with screw-type terminals 2 design of screwdriver shaft Dia	: (16 12), 2x (14 8)
design of screwdriver shaft Dia	
-	2.5 N·m
size of the screwdriver tip Po	ameter 5 to 6 mm
	ozidriv size 2
design of the thread of the connection screw	
• for main contacts M4	4
afety related data	
B10 value	
	000
proportion of dangerous failures	
	0/
3	%
• with high demand rate according to SN 31920 50	70
failure rate [FIT]	
5) FIT
T1 value for proof test interval or service life according to IEC 10 61508	
protection class IP on the front according to IEC 60529	20
touch protection on the front according to IEC 60529 fing	ger-safe, for vertical contact from the front
display version for switching status Ha	andle
ertificates/ approvals	



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=3RV2021-1BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1BA10

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

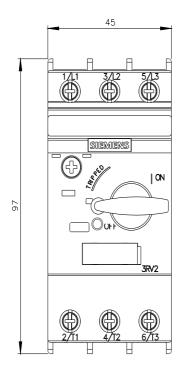
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1BA10&lang=en

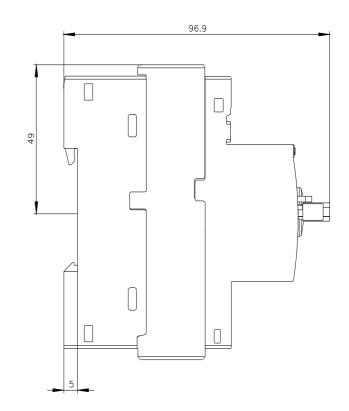
Characteristic: Tripping characteristics, I²t, Let-through current

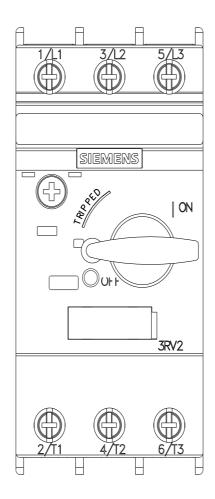
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1BA10/char

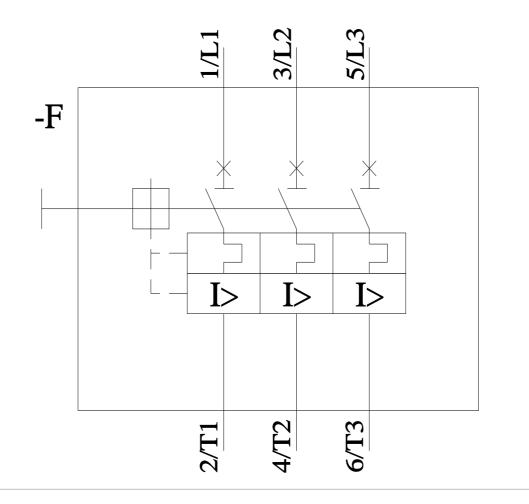
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1BA10&objecttype=14&gridview=view1









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