SIEMENS

Data sheet

3RV2321-4BC20

Circuit breaker size S0 for starter combination Rated current 20 A Nrelease 260 A Spring-type terminal Standard switching capacity



Product brand name	SIRIUS		
Product designation	Circuit breaker		
Design of the product	For starter combinations		
Product type designation	3RV2		
General technical data			
Size of the circuit-breaker	S0		
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 	10.5 W		
 at AC in hot operating state per pole 	3.5 W		
Insulation voltage with degree of pollution 3 at AC rated value	690 V		
Surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
 in networks with grounded star point between main and auxiliary circuit 	400 V		

400.1/
400 V
IP20
IP20
25g / 11 ms
100 000
100 000
100 000
100 000
100 000
100 000
100 000
100 000 Q
100 000 Q
100 000 Q 2 000 m

10 ... 95 %

Relative humidity during operation	

Main circuit	
Number of poles for main current circuit	3
Operating voltage	
 rated value 	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	20 A
Operating current	
• at AC-3	
— at 400 V rated value	20 A
Operating power	
• at AC-3	
— at 230 V rated value	5 500 W
— at 400 V rated value	7 500 W
— at 500 V rated value	11 000 W
— at 690 V rated value	15 000 W
Operating frequency	
• at AC-3 maximum	15 1/h
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	0

Product function No • Ground fault detection No • Phase failure detection No Operational short-circuit current breaking capacity (ics) at AC 100 kA • at 240 V rated value 100 kA • at 400 V rated value 25 kA • at 500 V rated value 2 kA Maximum short-circuit current breaking capacity (icu) • at AC at 240 V rated value 100 kA • at AC at 240 V rated value 100 kA • 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 • at AC at 500 V rated value 10 kA • at AC at 500 V rated value 260 A ///CSA ratings Full-load current (FLA) for three-phase AC motor 20 A • at 480 V rated value 20 A • at 480 V rated value 20 A • at 10/120 V rated value 15 hp • at 230 V rated value 3 hp • for three-phase AC motor	Number of NO contacts for auxiliary contacts	0
Product function Product functions Product function No • Ground fault detection No Operational short-circuit current breaking capacity (cs) at AC 100 kA • at 240 V rated value 100 kA • at 3500 V rated value 25 kA • at 6500 V rated value 2 kA Maximum short-circuit current breaking capacity (tcu) - • at AC at 400 V rated value 55 kA • at AC at 400 V rated value 55 kA • at AC at 400 V rated value 55 kA • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 4 kA Response value current - • of instantaneous short-circuit trip unit 260 A - Full-koad current (FLA) for three-phase AC motor - • at 480 V rated value 20 A • at 480 V rated value 3 hp • for single-phase AC motor - - at 210/120 V rated value 3 hp	Number of CO contacts	
Product function No • Cround fault detection No Phase failure detection No Operational short-circuit current breaking capacity (ics) at AC at 240 V rated value 100 kA at 400 V rated value 25 kA at 500 V rated value 2 kA Maximum short-circuit current breaking capacity (icu) at C at 240 V rated value 2 kA Maximum short-circuit current breaking capacity (icu) at AC at 400 V rated value 100 kA at AC at 500 V rated value 55 kA at AC at 500 V rated value 4 kA Response value current of instantaneous short-circuit trip unit 260 A 20 A at 600 V rated value 20 A of instantaneous short-circuit trip unit 260 A 20 A at 600 V rated value 3 hp for single-phase AC motor at 200/208 V rated value 3 hp for three-phase AC motor at 200/208 V rated value 10 hp Shott-circuit protection yes posign of the soft-circuit protection yes posign of the soft-circuit protection yes posign of the soft-kircuit trip magnetic<	 for auxiliary contacts 	0
eGround fault detectionNoPhase failure detectionNoOperational short-circuit current breaking capacity (ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value25 kA• at 650 V rated value2 kA• at 650 V rated value100 kA• at 650 V rated value100 kA• at 650 V rated value5 kA• at 620 V rated value100 kA• at AC at 240 V rated value55 kA• at AC at 240 V rated value10 kA• at AC at 500 V rated value10 kA• at AC at 500 V rated value260 A• at AC at 690 V rated value20 A• at AC at 690 V rated value20 A• at AC at 800 V rated value20 A• at 600 V rated value20 A• at 600 V rated value1.5 hp• at 600 V rated value3 hp• for single-phase AC motor at 200/208 V rated value3 hp• for three-phase AC motor at 200/208 V rated value3 hp• for three-phase AC motor at 200/208 V rated value5 hp- at 400 V ated value5 hp- at 400/400 V rated value10 hpEndertione Short circuit protectionYesDesign of the short-circuit tripmagneticDesign of the short-circuit tripmagneticDesign of the short-circuit tripmagnetic	Protective and monitoring functions	
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• of instantaneous short-circuit trip unit260 AJJ/CSA ratingsFull-load current (FLA) for three-phase AC motor • at 480 V rated value20 A• at 600 V rated value20 A• at 600 V rated value20 AYielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value1.5 hp• at 230 V rated value3 hp• for three-phase AC motor - at 200/208 V rated value7.5 hp• at 200/208 V rated value5 hp- at 220/230 V rated value10 hpShort-circuit protectionProduct function Short circuit protectionYesDesign of the short-circuit trip protection of the main circuit • at 400 V • at 500 Vyel/gG 63 A gL/gG 50 A	• at AC at 690 V rated value	4 kA
JL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 20 A • at 600 V rated value 20 A • at 600 V rated value 20 A • at 600 V rated value 20 A Yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 1.5 hp - at 230 V rated value 3 hp • for three-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 5 hp - at 220/230 V rated value 10 hp Short-circuit protection Yes Design of the short-circuit trip magnetic Design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 400 V gL/gG 63 A • at 500 V gL/gG 50 A	Response value current	
Full-load current (FLA) for three-phase AC motor 20 A • at 480 V rated value 20 A • at 600 V rated value 20 A Yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 1.5 hp - at 230 V rated value 3 hp • for three-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 5 hp - at 220/230 V rated value 10 hp Short-circuit protection Yes Product function Short circuit protection Yes Design of the short-circuit trip magnetic Design of the fuse link for IT network for short-circuit gL/gG 63 A • at 400 V gL/gG 63 A • at 500 V gL/gG 50 A	 of instantaneous short-circuit trip unit 	260 A
• at 480 V rated value20 A• at 600 V rated value20 AYielded mechanical performance [hp]20 A• for single-phase AC motor1.5 hp- at 110/120 V rated value1.5 hp- at 230 V rated value3 hp• for three-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value10 hpShort-circuit protectionYesDesign of the short-circuit tripmagneticDesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A	UL/CSA ratings	
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Yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 200 V rated value * for three-phase AC motor - at 200/208 V rated value * for three-phase AC motor - at 200/208 V rated value * at 200/208 V rated value * at 4200/208 V rated value * at 460/480 V rated value * bp - at 460/480 V rated value * brot-circuit protection Product function Short circuit protection Yes Design of the short-circuit trip * at 400 V * at 400 V * at 400 V * at 400 V * at 500 V	• at 480 V rated value	20 A
 for single-phase AC motor at 110/120 V rated value at 230 V rated value bp at 230 V rated value bp for three-phase AC motor at 200/208 V rated value for three-phase AC motor at 220/230 V rated value bp at 220/230 V rated value bp at 460/480 V rated value bp Short-circuit protection Product function Short circuit protection Product function Short circuit protection Yes Design of the short-circuit trip magnetic Design of the fuse link for IT network for short-circuit protection of the main circuit at 400 V gL/gG 63 A gL/gG 50 A 	• at 600 V rated value	20 A
- at 110/120 V rated value1.5 hp- at 230 V rated value3 hp• for three-phase AC motor at 200/208 V rated value7.5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hpShort-circuit protectionYesDesign of the short-circuit protectionDesign of the fuse link for IT network for short-circuit protection of the main circuitYes• at 400 VgL/gG 63 A• at 500 VgL/gG 50 A	Yielded mechanical performance [hp]	
- at 230 V rated value3 hp• for three-phase AC motor7.5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value10 hp• at 460/480 V rated value10 hpShort-circuit protectionYesProduct function Short circuit protectionYesDesign of the short-circuit tripmagneticposign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A• at 500 Vunction and circuit	 for single-phase AC motor 	
 for three-phase AC motor at 200/208 V rated value at 220/230 V rated value bp at 460/480 V rated value 0 hp Short-circuit protection Product function Short circuit protection Ves Design of the short-circuit trip magnetic at 400 V gL/gG 63 A gL/gG 50 A 	— at 110/120 V rated value	1.5 hp
at 200/208 V rated value7.5 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hpShort-circuit protectionProduct function Short circuit protectionYesDesign of the short-circuit tripmagneticDesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A	— at 230 V rated value	3 hp
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at 460/480 V rated value10 hpShort-circuit protectionProduct function Short circuit protectionYesDesign of the short-circuit tripmagneticDesign of the fuse link for IT network for short-circuit protection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A	— at 200/208 V rated value	7.5 hp
Short-circuit protection Yes Product function Short circuit protection Yes Design of the short-circuit trip magnetic Design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 63 A • at 400 V gL/gG 50 A	— at 220/230 V rated value	5 hp
Product function Short circuit protectionYesDesign of the short-circuit tripmagneticDesign of the fuse link for IT network for short-circuitmagneticprotection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A	— at 460/480 V rated value	10 hp
Product function Short circuit protectionYesDesign of the short-circuit tripmagneticDesign of the fuse link for IT network for short-circuitmagneticprotection of the main circuitgL/gG 63 A• at 400 VgL/gG 50 A	Short-circuit protection	
Design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 ∨ • at 500 ∨ gL/gG 63 A gL/gG 50 A		Yes
protection of the main circuit gL/gG 63 A ● at 400 V gL/gG 50 A ● at 500 V gL/gG 50 A	Product function Short circuit protection	
 at 400 V gL/gG 63 A at 500 V gL/gG 50 A 	•	
• at 500 V gL/gG 50 A	Design of the short-circuit trip Design of the fuse link for IT network for short-circuit	
	Design of the short-circuit trip Design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
	Design of the short-circuit trip Design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V	magnetic gL/gG 63 A
nstallation/ mounting/ dimensions	Design of the short-circuit trip Design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	magnetic gL/gG 63 A gL/gG 50 A

Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	119 mm
Width	45 mm
Depth	97 mm
Required spacing	
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 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

Connections/ Terminals	
Product function	
 removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
 for main current circuit 	spring-loaded terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
 for main contacts 	
— single or multi-stranded	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 at AWG conductors for main contacts 	2x (18 8)
Design of screwdriver shaft	Diameter 3 mm
Size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	5 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
 with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 у
Display version	
 for switching status 	Handle
Certificates/ approvals	

General Product	t Approval				Declaration of Conformity
	CSA		<u>KC</u>	EHC	EG-Konf.
Declaration of Conformity	Test Certificates	i	Marine / Ship	pping	
<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	Special Test Certi- ficate	ABS	BUREAU VERITAS	Lloyd's Register Irs
Marine / Shippin	g			other	
PRS	RINA	RMRS	DNVGLCOM/AF	Confirmation	VDE
Railway					
Vibration and Shock	Confirmation				

⁻urther information

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=3RV2321-4BC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-4BC20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4BC20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2321-4BC20&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4BC20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4BC20&objecttype=14&gridview=view1







