SIEMENS

Data sheet 3RV2321-4CC10



Circuit breaker size S0 for starter combination Rated current 22 A N-release 286 A screw 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
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009
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
operating voltage	
rated value	690 V
rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	22 A

operating power		
operating power at AC-3	operational current	
** A AC-3		22 A
— at 500 V rated value — at 680 V rated value operating frequency • at AC-3 maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts no Contacts for auxiliary contac		
— at 680 V rated value 18.5 kW		
operating frequency		
aumber of NC contacts for auxillary contacts number of NC contacts for auxillary contacts product function		18.5 kW
Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 Protective and monitoring functions product function • ground fault detection • plase sfallure detection No breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 250 V rated value • at AC at 260 V rated value • at AC at 500 V rated value • at 500 V rated valu		
number of NC contacts for auxillary contacts product function • ground fault detection • ground fault detection • phase failure detection • phase failure detection • phase failure detection • at 420 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at AC at 500 V rated value • at 80 V rated value • at 800 V rated value		15 1/h
number of NO contacts for auxiliary contacts normber of CO contacts for auxiliary contacts product function		
number of CO contacts for auxillary contacts Protective and monitoring functions product function • ground fault detection • phase failure detection breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 890 V rated value • at 890 V rated value • at AC at 240 V rated value • at AC at 340 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 80 V rated value • at 600 V rated value • at 500 V rated value • at 600 V rated value • at	number of NC contacts for auxiliary contacts	0
Protective and monitoring functions product function		0
product function	number of CO contacts for auxiliary contacts	0
	Protective and monitoring functions	
	product function	
breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value 5 kA 5 kA 5 kA 6 at 400 V rated value 6 at 690 V rated value 7 kA 7 kA 8 at 690 V rated value 9 at AC at 240 V rated value 100 kA 100 k	 ground fault detection 	No
at AC at 240 V rated value at 400 V rated value 25 kA at 500 V rated value 2 kA breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 55 kA at AC at 240 V rated value at AC at 240 V rated value 55 kA at AC at 500 V rated value 4 kA 55 kA 56 kA 56 kA 57 kA 58 kA 59 kA 50	phase failure detection	No
at 240 V rated value		
• at 400 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at 4 SO T vated value • at 480 V rated value • at 600 V rated value • at 100 V rated value • at 100 V rated value • at 600 V rated value • at 600 V rated value • at 200 V rated value • at 600 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 100 V rated value • at 80 V rated valu	200.00	40014
at \$500 V rated value at \$690 V rated value 2 kA breaking apacity maximum short-circuit current (icu) at AC at 240 V rated value 55 kA at AC at 400 V rated value 55 kA 100 kA 55 kA 4 kA 100 kA 55 kA 4 kA 100 V rated value 4 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor 4 t 480 V rated value 22 A 31 600 V rated value 22 A 31 600 V rated value 55 kA 4 kA 286 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor 4 t 480 V rated value 22 A 31 600 V rated value 50 kA 5		
breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit IL/CSA ratings Full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 7.5 hp at 230 V rated value at 220 V rated value for 3-phase AC motor at 200 V rated value at 220 V rated value for 3-phase AC motor at 200 V rated value at 200 V rated value for 3-phase AC motor at 460 V rated value for 3-phase AC motor at 460 V rated value for 3-phase AC motor at 460 V rated value gl/g6 63 A gl/g6 63 A gl/g6 50 A at 500 V at 500 V at 500 V gl/g6 50 A gl/g6 50 A gl/g6 50 A screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 helght width depth required spacing		
breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value 7.5 hp — at 200/208 V rated value 15 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 690 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method required spacing		
• at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value * at AC at 690 V rated value response value current of instantaneous short-circuit trip unit **DIL/CSA ratings** full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value * or rated value • at 600 V rated value • at 300 V rated value • for 3-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • 7.5 hp • at 220/230 V rated value • 7.5 hp • at 220/230 V rated value • 7.5 hp Total tricuit protection Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method according to DIN EN 60715 height width 45 mm depth required spacing		2 kA
at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 22 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value 1.5 hp at 230 V rated value 3 hp for 3-phase AC motor at 200/208 V rated value 7.5 hp at 200/208 V rated value 7.5 hp at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit at 460 V at 500 V at 500 V at 500 V at 600 V Installation/ mounting/ dimensions mounting position fastening method at 600 V required spacing		
at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 100 V rated value for single-phase AC motor		
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 100 V rated value - at 110/120 V rated value - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection 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 • at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth graph as AC motor 22 A 23 A 25 A 26 A 26 A 27 S hp 48 Sp 28 Sp 28 Sp 29 Sp 20		
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UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 22 A • at 600 V rated value 22 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 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 4460/480 V rated value 15 hp 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 • at 500 V gL/gG 63 A • at 500 V gL/gG 50 A Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	·	286 A
full-load current (FLA) for 3-phase AC motor		
● at 480 V rated value 22 A ● at 600 V rated value 22 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 3-phase AC motor - at 200/208 V rated value — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp 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 • at 500 V gL/gG 63 A • at 690 V gL/gG 50 A Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm		
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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 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 15 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection 4 design of the short-circuit trip 4 design of the fuse link for IT network for short-circuit protection of the main circuit 4 at 400 V 9L/gG 50 A 9		
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- at 110/120 V rated value - at 230 V rated value 3 hp • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value T.5 hp		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection 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 • at 690 V Installation/ mounting/ dimensions mounting position fastening method according to DIN EN 60715 height 97 mm width 45 mm depth required spacing		1.5 hp
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- at 220/230 V rated value - at 460/480 V rated value Short-circuit protection product function short circuit protection 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 • at 690 V Installation/ mounting/ dimensions mounting position fastening method any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth required spacing	•	7.5 hp
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design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth required spacing		
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Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 97 mm width 45 mm depth required spacing		
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according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing		screw and snap-on mounting onto 35 mm standard mounting rail
width 45 mm depth 97 mm required spacing		according to DIN EN 60715
depth 97 mm required spacing		
required spacing		45 mm
	•	97 mm
◆ for grounded parts at 400 V		
	 for grounded parts at 400 V 	

 downwards upwards at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards at the side for grounded parts at 690 V downwards upwards at the side for live parts at 690 V 	30 mm 9 mm 30 mm 30 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm 50 mm 9 mm 50 mm 50 mm 50 mm 50 mm 0 mm 0 mm
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 downwards upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards upwards at the side for grounded parts at 690 V downwards upwards at the side for grounded parts at 690 V downwards upwards at the side for live parts at 690 V 	30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 mm 30 mm 50 mm 50 mm 50 mm 0 mm
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 at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards at the side for grounded parts at 690 V downwards upwards at the side for live parts at 690 V 	9 mm 30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 50 mm 50 mm 0 mm 0 mm
 for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards upwards upwards at the side for downwards upwards backwards at the side for live parts at 690 V 	30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 50 mm 50 mm 0 mm 0 mm
 downwards upwards at the side for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards upwards at the side for downwards upwards backwards at the side forwards for live parts at 690 V 	30 mm 9 mm 30 mm 30 mm 9 mm 50 mm 50 mm 0 mm 30 mm
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 for live parts at 500 V downwards upwards at the side for grounded parts at 690 V downwards upwards backwards at the side forwards for live parts at 690 V 	30 mm 30 mm 9 mm 50 mm 0 mm 30 mm
 downwards upwards at the side for grounded parts at 690 V downwards upwards backwards at the side forwards for live parts at 690 V 	30 mm 9 mm 50 mm 50 mm 0 mm 30 mm
 upwards at the side for grounded parts at 690 V downwards upwards backwards at the side forwards for live parts at 690 V 	30 mm 9 mm 50 mm 50 mm 0 mm 30 mm
 at the side for grounded parts at 690 V downwards upwards backwards at the side forwards for live parts at 690 V 	9 mm 50 mm 50 mm 0 mm 30 mm
 for grounded parts at 690 V downwards upwards backwards at the side forwards for live parts at 690 V 	50 mm 50 mm 0 mm 30 mm
 downwards upwards backwards at the side forwards for live parts at 690 V 	50 mm 0 mm 30 mm
 upwards backwards at the side forwards for live parts at 690 V 	50 mm 0 mm 30 mm
 backwards at the side forwards for live parts at 690 V 	0 mm 30 mm
— at the side— forwards• for live parts at 690 V	30 mm
— forwards• for live parts at 690 V	
• for live parts at 690 V	0 mm
	•
d accompany	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
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	
tightening torque	2x (16 12), 2x (14 8)
	2 2.5 N·m
for main contacts with screw-type terminals design of screwdriver shaft	
size of the screwdriver tip	Diameter 5 to 6 mm Pozidriv size 2
design of the thread of the connection screw	I OZIGITY SIZE Z
for main contacts	M4
Safety related data	
B10 value	
with high demand rate acc. to SN 31920	5 000
-	0 000
proportion of dangerous failures • with low demand rate acc. to SN 31920	50.04
	50 %
with high demand rate acc. to SN 31920 failure rate [EIT]	50 %
failure rate [FIT] • with low demand rate acc. to SN 31920	50 EIT
	50 FIT
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529 display version for switching status	finger-safe, for vertical contact from the front Handle
	Talluid
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other

Railway



Vibration and Shock

Confirmation

Further 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=3RV2321-4CC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-4CC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4CC10

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

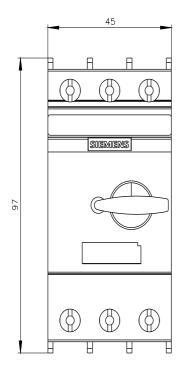
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2321-4CC10&lang=en

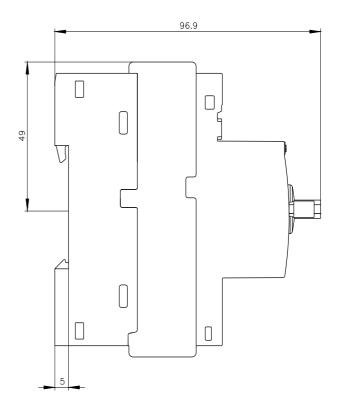
Characteristic: Tripping characteristics, I2t, Let-through current

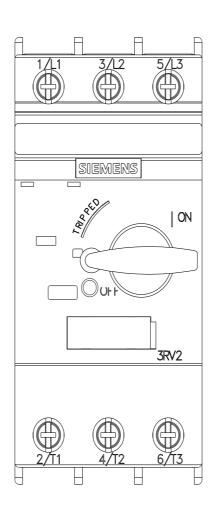
https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4CC10/char

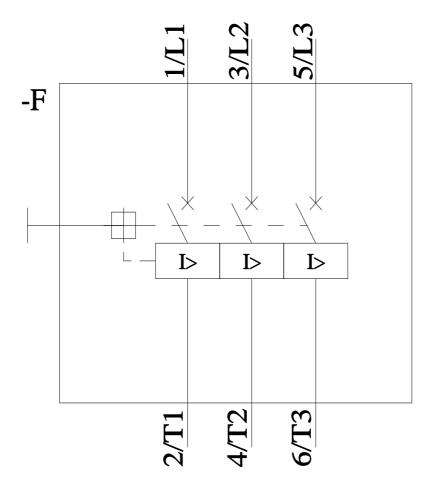
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4CC10&objecttype=14&gridview=view1









last modified: 1/27/2022 🖸