## **SIEMENS**

Data sheet 3RV2321-4DC10



Circuit breaker size S0 for starter combination Rated current 25 A N-release 325 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	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	
<ul> <li>at AC in hot operating state</li> </ul>	10.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.5 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 (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (switching cycles) typical	100 000
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	
<ul><li>during operation</li></ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	25 A
operational current	
• at AC-3 at 400 V rated value	25 A
• at AC-3e at 400 V rated value	25 A

operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
operating frequency	
<ul><li>at AC-3 maximum</li></ul>	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
breaking capacity maximum short-circuit current (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	55 kA
at AC at 500 V rated value	10 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	4 kA
breaking capacity operating short-circuit current (Ics)	
at AC  • at 240 V rated value	100 kA
at 400 V rated value     at 400 V rated value	25 kA
	-5.0
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	5 kA 2 kA
response value current of instantaneous short-circuit trip	325 A
unit	320 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	25 A
at 600 V rated value	25 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	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	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
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	97 mm

depth	width	45 mm
Forgranded spacing     Forgranded spars at 400 V		
• for grounded parts at 400 V  — downwards — at the side — powards — of where side — powards — of the parts at 400 V  — downwards — of the side — powards — at the side — for grounded parts at 500 V  — downwards — of grounded parts at 500 V  — downwards — upwards — at the side — powards — ownwards — ownwards — upwards — ownwards	-	Vi iiiii
downwards		
- upwards		30 mm
at the side		
• for live parts at 400 V	·	
- downwards		3 11111
upwards	•	30 mm
at the side		
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downwards upwards at the side for live parts at 50 0 V downwards at the side upwards at the side upwards at the side younded parts at 690 V downwards younded parts at 690 V downwards upwards upw		9 111111
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- upwards		
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for main contacts      M4  Safety related data  B10 value     with high demand rate according to SN 31920     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920     with low demand rate according to SN 31920  failure rate [FIT]     with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  IP20	·	
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<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT]         <ul> <li>with low demand rate according to SN 31920</li> <li>FIT</li> </ul> </li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>IP20</li> </ul>		50 %
failure rate [FIT]       ● with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 61508       10 y         protection class IP on the front according to IEC 60529       IP20		
<ul> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>IP20</li> </ul>		00 /0
T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  10 y  IP20		50 FIT
protection class IP on the front according to IEC 60529 IP20		
60529		ю
		IP20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		
	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

## Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

## 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=3RV2321-4DC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-4DC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4DC10

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

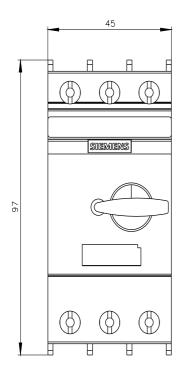
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2321-4DC10&lang=en

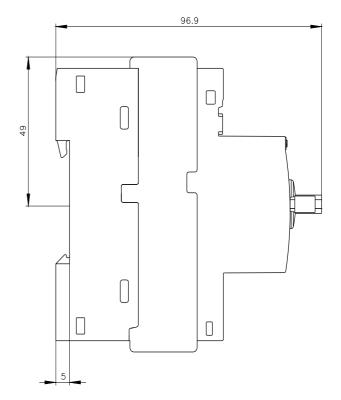
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4DC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4DC10&objecttype=14&gridview=view1





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