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	
 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 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
ambient temperature during storage	-50 +80 °C
 ambient temperature 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
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	25 A
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operational current at AC-3 at 400 V rated value	25 A			
operating power at AC-3				
at 230 V rated value	5 500 W			
at 400 V rated value				
	11 000 W			
at 500 V rated value	15 000 W			
at 690 V rated value	22 000 W			
operating frequency at AC-3 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 operating short-circuit current (Ics) at AC				
• at 240 V rated value	100 kA			
• at 400 V rated value	25 kA			
• at 500 V rated value	5 kA			
• at 690 V rated value	2 kA			
breaking capacity maximum short-circuit current (lcu)				
 at AC at 240 V rated value 	100 kA			
 at AC at 400 V rated value 	55 kA			
 at AC at 500 V rated value 	10 kA			
 at AC at 690 V rated value 	4 kA			
response value current of instantaneous short-circuit trip	325 A			
unit				
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
 at 480 V rated value 	25 A			
at 600 V rated value	25 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	2 hp			
— at 230 V rated value	3 hp			
 for 3-phase AC motor 				
— 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			
width	45 mm			
depth	97 mm			
required spacing				
 for grounded parts at 400 V 				
— downwards	30 mm			
— upwards	30 mm			

— at the side	9 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
 for grounded parts at 500 V 				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
 for live parts at 500 V 				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 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			
— upwards — backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
Connections/ Terminals	011111			
	AL			
product function removable terminal for auxiliary and control circuit	No			
type of electrical connection				
for main current circuit	screw-type terminals			
arrangement of electrical connectors for main current circuit	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	2x (16 12), 2x (14 8)			
 tightening torque for main contacts with screw-type terminals 	2 2.5 N·m			
design of screwdriver shaft	Diameter 5 to 6 mm			
size of the screwdriver tip	Pozidriv 2			
design of the thread of the connection screw				
for main contacts	M4			
	דויו			
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			
protection class IP on the front acc. to IEC 60529	IP20			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front			
display version for switching status	Handle			
Certificates/ approvals				
General Product Approval	Declaration of			
oundrai i roudet Approval	Decidiation of			

					Conformity	
(SA)	CCC		<u>KC</u>	EHC	<u>Miscellaneous</u>	
Declaration of Conformity	Test Certificates		Marine / Shipping			
CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS	BUREAU VERITAS	Lloyds Register uis	
Marine / Shipping				other		
PRS	RINA	RMRS	CINV-GL ENVILCOMON	<u>Confirmation</u>	VDE	
Railway						
Vibration and Shock	<u>Confirmation</u>					
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						

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, ...)

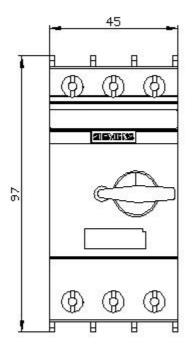
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2321-4DC10&lang=en

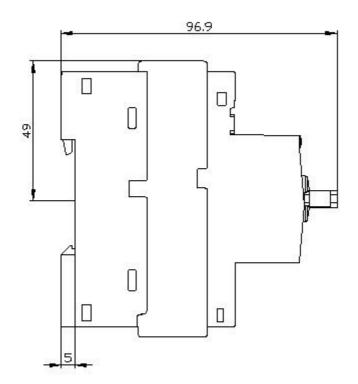
Characteristic: Tripping characteristics, I²t, Let-through current

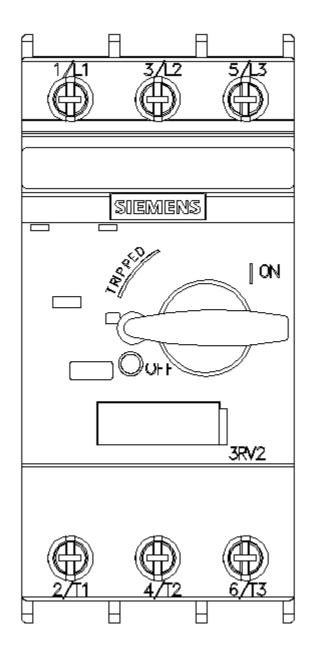
https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4DC10/char

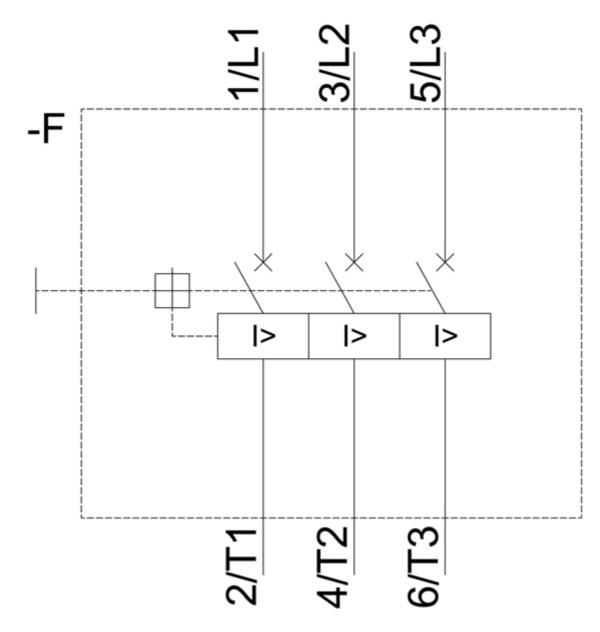
Further characteristics (e.g. electrical endurance, switching frequency)

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









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