SIEMENS

Data sheet

3RV2321-1AC10



Circuit breaker size S0 for starter combination Rated current 1.6 A N-release 21 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 	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 (switching cycles)				
 of the main contacts typical 	100 000			
 of auxiliary contacts typical 	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				
 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 	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	1.6 A			
operational current				
 at AC-3 at 400 V rated value 	1.6 A			
 at AC-3e at 400 V rated value 	1.6 A			

operating power	
• at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
• at AC-3 maximum	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
-	0
Protective and monitoring functions	
product function	Ne
ground fault detection	No
phase failure detection	No
breaking capacity maximum short-circuit current (lcu)	
 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 690 V rated value 	100 kA
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
at 240 V rated value	100 kA
at 500 V rated value	100 kA
at 500 V rated value	100 kA
response value current of instantaneous short-circuit trip	21 A
unit	217
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1.6 A
• at 600 V rated value	1.6 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.1 hp
 for 3-phase AC motor 	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.8 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	any screw and snap-on mounting onto 35 mm standard mounting rail
lastening method	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
	•

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 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals	10 y IP20 finger-safe, for vertical contact from the front Handle	Declaration of
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	10 y IP20 finger-safe, for vertical contact from the front	
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	10 y IP20 finger-safe, for vertical contact from the front	
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	
T1 value for proof test interval or service life according to IEC 61508	10 у	
	50 FIT	
failure rate [FIT]		
 with high demand rate according to SN 31920 	50 %	
 with low demand rate according to SN 31920 	50 %	
proportion of dangerous failures		
 with high demand rate according to SN 31920 	5 000	
B10 value		
Safety related data		
 for main contacts 	M4	
design of the thread of the connection screw		
size of the screwdriver tip	Pozidriv size 2	
design of screwdriver shaft	Diameter 5 to 6 mm	
 for main contacts with screw-type terminals 	2 2.5 N·m	
tightening torque		
at AWG cables for main contacts	2x (16 12), 2x (14 8)	
 — finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current circuit	Top and bottom	
for main current circuit	screw-type terminals	
type of electrical connection		
Connections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for live parts at 690 V		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
 for grounded parts at 690 V 		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for live parts at 500 V 		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for grounded parts at 500 V 		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for live parts at 400 V 		

	<u>Confirmation</u>	CCC		EAC	CE EG-Konf.			
Declaration of Conformity	Test Certificates		Marine / Shipping					
UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS				
Marine / Shipping				other				
Llovd's Register urs	PRS	RINA	RMRS	<u>Confirmation</u>				
Railway								
<u>Confirmation</u>	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=3RV2321-1AC10								

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2321-1AC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-1AC10

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

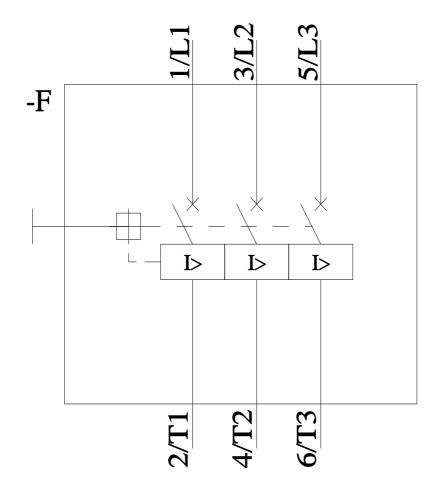
https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-1AC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2321-1AC10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-1AC10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-1AC10&objecttype=14&gridview=view1



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