## **SIEMENS**

Data sheet 3RV2321-1JC20



Circuit breaker size S0 for starter combination Rated current 10 A N release 130 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	9.25 W			
at AC in hot operating state per pole	3.1 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 (operating cycles)				
of the main contacts typical	100 000			
of auxiliary contacts typical	100 000			
electrical endurance (operating cycles) typical	100 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2009			
SVHC substance name	Blei - 7439-92-1			
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			
<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	10 A			
operational current				
• at AC-3 at 400 V rated value	10 A			
at AC-3e at 400 V rated value	10 A			
operating power				

• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 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
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
maximum short-circuit current breaking capacity (Icu)	
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	42 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	O IVA
• at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value     at 500 V rated value	42 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	100 A
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
at 600 V rated value	
	10 A
yielded mechanical performance [hp]  • for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
<ul><li>— at 230 V rated value</li><li>● for 3-phase AC motor</li></ul>	1.5 hp
tor 3-pnase AC motor  — at 200/208 V rated value	2 hn
	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	Voc
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	119 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm

Confirmation	(I)	<u>KC</u>	EAC	<b>C</b> € <sub>EG-Konf</sub> .		
General Product Approval				formity		
Approvals Certificates				Declaration of Con-		
display version for switching status	Hand	lle				
touch protection on the front according to IEC 605		r-safe, for vertical contac	ct from the front			
protection class IP on the front according to IEC 6						
IEC 61508	-					
T1 value for proof test interval or service life according						
B10 value with high demand rate according to SN	<b>31920</b> 5 00	)				
failure rate [FIT] with low demand rate according to 31920	<b>o SN</b> 50 F	1				
with high demand rate according to SN 31920	50 %					
with low demand rate according to SN 31920	50 %					
proportion of dangerous failures						
Safety related data						
size of the screwdriver tip	3,0 x	3,0 x 0,5 mm				
design of screwdriver shaft	Diam	Diameter 3 mm				
• for AWG cables for main contacts	2x (1	8 8)				
— finely stranded without core end processir		2x (1 6 mm²)				
finely stranded with core end processing	•	2x (1 6 mm²)				
— solid or stranded	2x (1	2x (1 10 mm²)				
• for main contacts						
type of connectable conductor cross-sections						
arrangement of electrical connectors for main curredirections	rent Top	and bottom				
for main current circuit		spring-loaded terminals				
type of electrical connection						
Connections/ Terminals						
— forwards	0 mn	1				
— at the side	30 m	m				
— backwards	0 mn	1				
— upwards	50 m	m				
— downwards	50 m	m				
• for live parts at 690 V						
— forwards	0 mn					
— at the side	30 m					
— upwards — backwards	0 mr					
— downwards — upwards		50 mm				
• for grounded parts at 690 V	50	m				
— at the side	9 mr	1				
— upwards	30 m					
— downwards	30 m					
• for live parts at 500 V						
— at the side	9 mr	9 mm				
— upwards	30 m	m				
— downwards	30 m	m				
• for grounded parts at 500 V						
— at the side	9 mr	9 mm				
— upwards	30 m	m				
— downwards	30 m	m				
<ul> <li>for live parts at 400 V</li> </ul>						



Type Test Certificates/Test Report

**Special Test Certific**ate







Marine / Shipping

other







Household and similar appliances

Confirmation



Railway

**Environment** 

Vibration and Shock

Confirmation

**Environmental Confirmations** 

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2321-1JC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-1JC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-1JC20

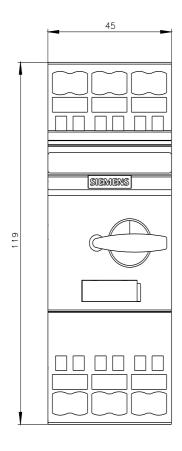
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

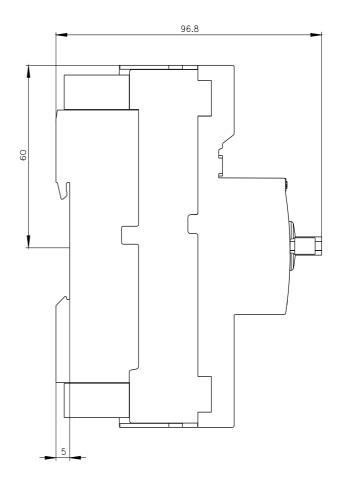
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2321-1JC20&lang=en

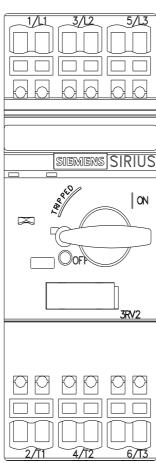
Characteristic: Tripping characteristics, I2t, Let-through current

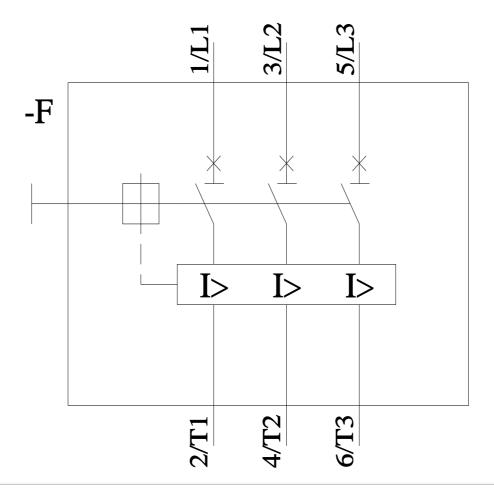
https://support.industry.siemens.com/cs/ww/en/ps/3RV2

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-1JC20&objecttype=14&gridview=view1









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