## **SIEMENS**

Data sheet 3RH1921-1CA10



front-side auxiliary switch, 1 NO contact, screw terminal, for contactors 3RT1

product brand name	SIRIUS
product category	Auxiliary switch
product designation	auxiliary switch
design of the product	for snapping onto the front
product type designation	3RH19
suitability for use	for 3RT10, 3RT12, 3RT145, 3RT146, 3RT147
General technical data	
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
protection class IP on the front	IP20
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	200 000
Substance Prohibitance (Date)	07/01/2006
Weight	19 g
number of NC contacts for auxiliary contacts	
instantaneous contact	0
number of NO contacts for auxiliary contacts	
instantaneous contact	1
number of CO contacts of auxiliary contacts instantaneous contact	0
operational current at AC-15 at 690 V rated value	1 A
operational current of auxiliary contacts at AC-12	
● at 24 V	10 A
● at 230 V	10 A
operational current of auxiliary contacts at AC-14	
● at 125 V	6 A
● at 250 V	6 A
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at AC-15	
• at 24 V	6 A
• at 230 V	6 A
• at 400 V	3 A
operational current of auxiliary contacts at DC-12	
• at 24 V	10 A
• at 110 V	3 A
• at 220 V	1 A
operational current with 2 current paths in series at DC-12	
• at 24 V rated value	10 A
• at 60 V rated value	10 A
at 110 V rated value	4 A

• at 220 V rated value	2 A
at 440 V rated value	1.3 A
at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
• at 24 V rated value	10 A
<ul> <li>at 60 V rated value</li> </ul>	10 A
<ul> <li>at 110 V rated value</li> </ul>	10 A
<ul> <li>at 220 V rated value</li> </ul>	3.6 A
<ul> <li>at 440 V rated value</li> </ul>	2.5 A
at 600 V rated value	1.8 A
operational current with 2 current paths in series at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
at 60 V rated value	3.5 A
<ul> <li>at 110 V rated value</li> </ul>	1.3 A
at 220 V rated value	0.9 A
at 440 V rated value	0.2 A
at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
at 24 V rated value	10 A
• at 60 V rated value	4.7 A
• at 110 V rated value	3 A
at 220 V rated value	1.2 A
• at 440 V rated value	0.5 A
• at 600 V rated value	0.26 A
operational current of auxiliary contacts at DC-13	
• at 24 V	6 A
● at 48 V	2 A
• at 60 V	2 A
• at 110 V	1A
• at 125 V	0.9 A
• at 220 V	0.3 A
• at 250 V	0.3 A
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RT1
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
or the auxiliary circuit up to 200 v	
design of the fuse link for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
design of the fuse link for short-circuit protection of the auxiliary	gG: 10 A (500 V, 1 kA)
design of the fuse link for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA) snap-on mounting
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method	snap-on mounting
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height	snap-on mounting 38 mm
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height width	snap-on mounting 38 mm 10 mm
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height width depth	snap-on mounting 38 mm 10 mm
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions fastening method height width depth Connections/ Terminals	snap-on mounting 38 mm 10 mm 51 mm
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions fastening method height width depth  Connections/ Terminals type of electrical connection for auxiliary and control circuit	snap-on mounting 38 mm 10 mm 51 mm
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height width depth  Connections/ Terminals type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts	snap-on mounting 38 mm 10 mm 51 mm screw-type terminals
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height width depth  Connections/ Terminals type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts • solid or stranded	snap-on mounting  38 mm  10 mm  51 mm  screw-type terminals  0.5 2.5 mm²
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions fastening method height width depth  Connections/ Terminals type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing	snap-on mounting  38 mm  10 mm  51 mm  screw-type terminals  0.5 2.5 mm²
design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  fastening method height width depth  Connections/ Terminals type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	snap-on mounting  38 mm  10 mm  51 mm  screw-type terminals  0.5 2.5 mm²

- finely stranded with core end processing

• for AWG cables for auxiliary contacts

 $2x\ (0.5\ ...\ 1.5\ mm^2),\ 2x\ (0.75\ ...\ 2.5\ mm^2)$ 

2x (20 ... 16), 2x (18 ... 14)

AWG number as coded connectable conductor cross section for auxiliary contacts

20 ... 14

## Approvals Certificates

## **General Product Approval**









<u>KC</u>



**Test Certificates** 

Maritime application

other

Special Test Certificate

Type Test Certificates/Test Report









other

Railway

Environment

Confirmation

Type Test Certificates/Test Report

Special Test Certificate Environmental Confirmations

## Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RH1921-1CA10

Cax online generator

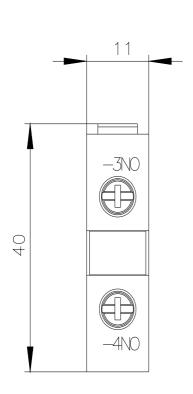
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1CA10

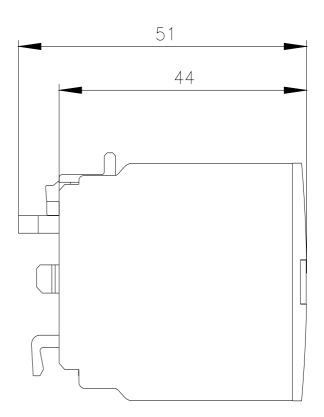
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

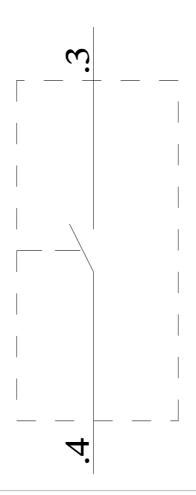
https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-1CA10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH1921-1CA10&lang=en







last modified: 4/11/2025 🖸

