## SIEMENS

## Data sheet

## 3RH1921-2CA10

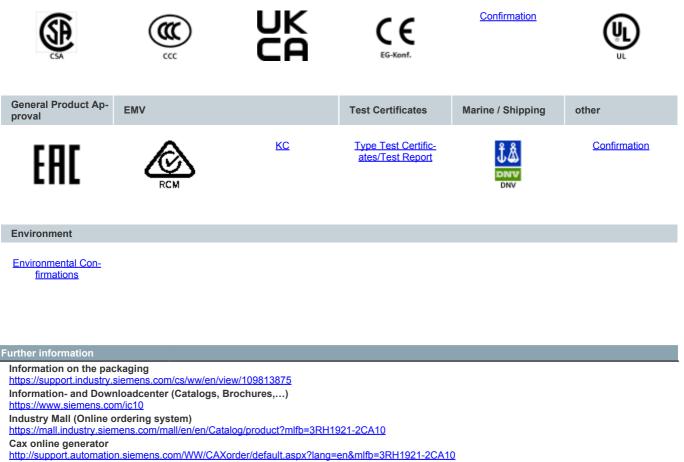


front-side auxiliary switch, 1 NO contact, spring-type terminal, for contactors 3RT1

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
number of NC contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	0
number of NO contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	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
<ul> <li>at 220 V rated value</li> </ul>	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
• at 60 V rated value	10 A
at 110 V rated value	10 A
at 220 V rated value	3.6 A
at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
	1.0 A
operational current with 2 current paths in series at DC-13	40.4
• at 24 V rated value	10 A
at 60 V rated value	3.5 A
<ul> <li>at 110 V rated value</li> </ul>	1.3 A
<ul> <li>at 220 V rated value</li> </ul>	0.9 A
<ul> <li>at 440 V rated value</li> </ul>	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	1 A
• at 125 V	0.9 A
• at 220 V	0.3 A
• at 250 V	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Ambient conditions	
Ambient conditions ambient temperature	
	-25 +60 °C
ambient temperature	-25 +60 °C -55 +80 °C
ambient temperature <ul> <li>during operation</li> </ul>	
ambient temperature <ul> <li>during operation</li> <li>during storage</li> </ul>	
ambient temperature • during operation • during storage Safety related data	
ambient temperature <ul> <li>during operation</li> <li>during storage</li> </ul> <li>Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> </ul> </li>	-55 +80 °C
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1	-55 +80 °C Yes; with 3RT1
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions	-55 +80 °C Yes; with 3RT1 No
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method	-55 +80 °C Yes; with 3RT1 No snap-on mounting
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method         height	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method         height         width	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method         height         width         depth	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • finely stranded without core end processing	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • finely stranded without core end processing	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • finely stranded without core end processing         • finely connectable conductor cross-sections	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • finely stranded without core end processing         • for auxiliary contacts         • for auxiliary contacts	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • finely stranded without core end processing         • for auxiliary contacts         - solid or stranded	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 2.5 mm <sup>2</sup> )
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • for auxiliary contacts         - solid or stranded         - solid or stranded         - finely stranded with core end processing	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> )
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • finely stranded with core end processing	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm 51 mm spring-loaded terminals 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)
ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         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         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — f	-55 +80 °C Yes; with 3RT1 No snap-on mounting 38 mm 10 mm 51 mm spring-loaded terminals 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )

**General Product Approval** 

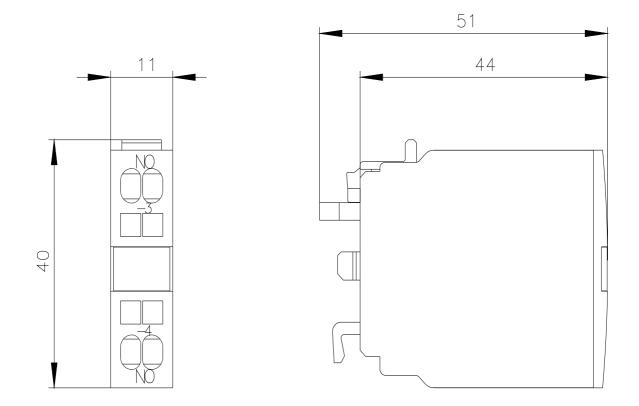


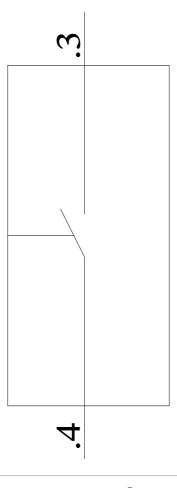
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-2CA10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH1921-2CA10&lang=en







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