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
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
 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
operational current with 2 current paths in series at DC-13	
 at 24 V rated value 	10 A
 at 60 V rated value 	3.5 A
 at 110 V rated value 	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
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Ambient conditions	readity switching per 100 million (17-V, 1 mA)
ambient temperature	
during operation	-25 +60 °C
during operation during storage	-55 +80 °C
Safety related data	-55 100 0
product function	Vacanith 2DT4
 mirror contact according to IEC 60947-4-1 	
"	Yes; with 3RT1
positively driven operation according to IEC 60947-5-1	No
contact reliability of auxiliary contacts	
contact reliability of auxiliary contacts Installation/ mounting/ dimensions	No 1 faulty switching per 100 million (17 V, 1 mA)
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth type of electrical connection for auxiliary and control circuit	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth type of electrical connection for auxiliary and control circuit connectable conductor cross-section for auxiliary contacts • solid or stranded	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm²
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm²
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm²
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm²
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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 AWG cables for auxiliary contacts	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (18 14)
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
contact reliability of auxiliary contacts Installation/ mounting/ dimensions fastening method height width depth 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for	No 1 faulty switching per 100 million (17 V, 1 mA) snap-on mounting 38 mm 10 mm 51 mm screw-type terminals 0.5 2.5 mm² 0.5 2.5 mm² 2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (18 14)



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report Special Test Certificate



Marine / Shipping







Confirmation

other

Type Test Certificates/Test Report

Railway

Railway

Special Test Certificate

Vibration and Shock

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=3RH1921-1CA10

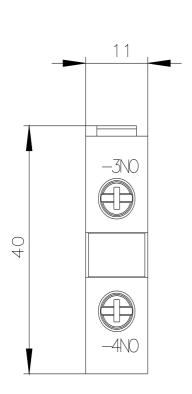
Cax online generator

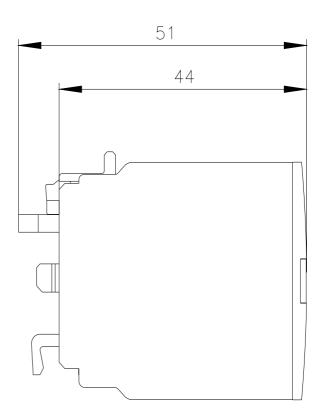
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1CA10

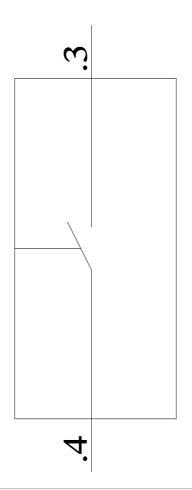
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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







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