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	0.02 kg
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	1 A
● 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	46 11 11 11 400 111 4471/4 41
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Ambient conditions	
ambient temperature	05
during operation	-25 +60 °C
during storage Sefect valeted data	-55 +80 °C
Safety related data	
product function	Very with ODT4
mirror contact according to IEC 60947-4-1 marritimate desired according to IEC 60947-5-4. marritimate desired according to IEC 60947-5-4. marritimate desired according to IEC 60947-6-4. married according to IEC 60947-4-1. married according to IEC 60947-	Yes; with 3RT1
positively driven operation according to IEC 60947-5-1	No
Short-circuit protection 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 design of the fuse link for short-circuit protection of the auxiliary	gG: 10 A (500 V, 1 kA)
switch required	
Installation/ mounting/ dimensions	
fastening method	snap-on mounting
height	38 mm
width	10 mm
depth	51 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

- finely stranded with core end processing

• for AWG cables for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

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 Functional Saftey Marine / Shipping

Type Examination Cer**tificate**

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







other Railway Environment

Confirmation Type Test Certific-

ates/Test Report

Special Test Certific-<u>ate</u>

Environmental Confirmations

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH1921-1CA10

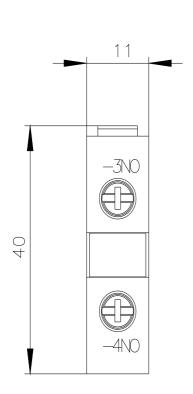
Cax online generator

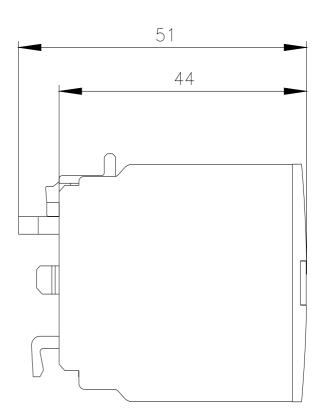
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1CA10

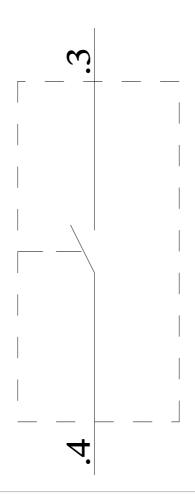
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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







last modified: 4/11/2025 🖸

