SIEMENS

Data sheet 3RH1981-1JA11



2nd lateral auxiliary switch 1 NO, 1 NC, screw terminal for contactor 3RT148

Figure similar

product designory	product brand name	SIRIUS
design of the product product type designation graph of the product type designation of the product type of the product of	product category	Auxiliary switch
product type designation 3RH19	product designation	auxiliary switch
Suitability for use	design of the product	second can be mounted laterally
Insulation voltage with degree of pollution 3 at AC rated value 60 V	product type designation	3RH19
Insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value protection class IP on the front mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical Substance Prohibitance (Date) number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact leading contact number of NO contacts for auxiliary contacts instantaneous contact leading contact number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V at 4400 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V at 440 V at 400 V operational current of auxiliary contacts at AC-15 at 44 V at 45 C at 47 C at 48 V at 40 C at 410 V operational current of auxiliary contacts at AC-19 at 410 V at	suitability for use	for 3RT148
surge voltage resistance rated value 6 kV protection class IP on the front IP00 mechanical service life (operating cycles) typical 1 000 000 electrical endurance (operating cycles) at AC-15 at 230 V typical 250 000 Substance Prohibitance (Date) 05/15/2019 number of NC contacts for auxiliary contacts instantaneous contact lagging switching 0 number of NC contacts for auxiliary contacts leading contact leading contact 0 number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V at 24 V at 48 V at 10 V at 110 V at 25 V at 25 V at 25 V	General technical data	
protection class IP on the front IP00 mechanical service life (operating cycles) typical 1000 000 electrical endurance (operating cycles) at AC-15 at 230 V typical 250 000 typical 250 000 typical 30 Usbstance Prohibitance (Date) 05/15/2019 number of NC contacts for auxillary contacts 1	insulation voltage with degree of pollution 3 at AC rated value	600 V
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical Substance Prohibitance (Date) number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact number of NO contacts of auxiliary contacts instantaneous contact leading contact number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 44 V at 230 V operational current of auxiliary contacts at AC-15 at 44 V at 230 V operational current of auxiliary contacts at AC-15 at 44 V at 48 V at 41 0V at 15 V at 110 V at 110 V at 125 V at 220 V at 250 V 0.27 A Ambient conditions	surge voltage resistance rated value	6 kV
electrical endurance (operating cycles) at AC-15 at 230 V typical Substance Prohibitance (Date) number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V of A at 230 V at 230 V at 400 V operational current of auxiliary contacts at AC-13 at 24 V of A at 24 V of A at 25 V operational current of auxiliary contacts at AC-13 at 24 V of A at 24 V of A at 25 V of A at 40 V at 410 V at 410 V of A at 410 V of A at 4120 V of A at 420 V of A of	protection class IP on the front	IP00
Substance Prohibitance (Date) number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NC contacts for auxiliary contacts instantaneous contact leading contact leading contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 24 V operational current of auxiliary contacts at AC-15 at 24 V at 24 V at 24 V operational current of auxiliary contacts at AC-15 at 24 V at 24 V at 25 V at 20 V operational current of auxiliary contacts at AC-15 at 24 V at 40 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-15 at 24 V operational current of auxiliary contacts at AC-12 at 24 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 operational current of auxiliary contacts at AC-12 at 24 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts at AC-12 at 25 V operational current of auxiliary contacts a	mechanical service life (operating cycles) typical	1 000 000
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instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V because of CO auxiliary contacts at AC-12 at 24 V because of CO auxiliary contacts at AC-12 at 24 V because of CO auxiliary contacts at AC-12 at 24 V because of CO auxiliary contacts at AC-12 at 230 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-13 at 24 V because of CO auxiliary contacts at AC-13 at 24 V because of CO auxiliary contacts at AC-13 at 24 V because of CO auxiliary contacts at AC-13 at 24 V because of CO auxiliary contacts at AC-13 at 24 V because of CO auxiliary contacts at AC-15 at 24 V because of CO auxiliary contacts at AC-15 at 25 O V because of CO auxiliary contacts at AC-15 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O V because of CO auxiliary contacts at AC-12 at 25 O C auxiliary contac	Substance Prohibitance (Date)	05/15/2019
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number of NO contacts for auxiliary contacts instantaneous contact leading contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at AC-15 at 24 V at 230 V 6 A at 230 V 3 A at 400 V 1.5 A operational current of auxiliary contacts at DC-13 at 24 V at 400 V 0perational current of auxiliary contacts at DC-13 at 24 V at 125 V at 110 V at 125 V at 125 V at 220 V at 220 V at 250 V Ambient conditions	 instantaneous contact 	1
	lagging switching	0
• leading contact number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 • at 24 V	number of NO contacts for auxiliary contacts	
number of CO contacts of auxiliary contacts instantaneous contact operational current of auxiliary contacts at AC-12 • at 24 V • at 230 V operational current of auxiliary contacts at AC-12 maximum 16 A operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V • at 400 V operational current of auxiliary contacts at DC-13 • at 24 V • at 48 V • at 60 V • at 110 V • at 125 V • at 220 V • at 220 V • at 220 V • at 220 V • at 250 V Ambient conditions	 instantaneous contact 	1
operational current of auxiliary contacts at AC-12	leading contact	0
• at 24 V		0
● at 230 V operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 ● at 24 V ● at 230 V ● at 400 V operational current of auxiliary contacts at DC-13 ● at 24 V ● at 48 V ● at 48 V ● at 60 V ● at 110 V ● at 125 V ● at 220 V ● at 220 V ● at 250 V Ambient conditions	operational current of auxiliary contacts at AC-12	
operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at AC-15 • at 24 V	● at 24 V	16 A
operational current of auxiliary contacts at AC-15 • at 24 V	• at 230 V	16 A
 at 24 V at 230 V at 400 V 1.5 A Operational current of auxiliary contacts at DC-13 at 24 V at 48 V at 60 V at 110 V at 125 V at 220 V at 250 V Ambient conditions 6 A 2 A 0 A <l< th=""><th>operational current of auxiliary contacts at AC-12 maximum</th><th>16 A</th></l<>	operational current of auxiliary contacts at AC-12 maximum	16 A
• at 230 ∨ • at 400 ∨	operational current of auxiliary contacts at AC-15	
● at 400 V operational current of auxiliary contacts at DC-13 ● at 24 V ● at 48 V ● at 60 V ● at 110 V ● at 125 V ● at 220 V ● at 250 V Ambient conditions	• at 24 V	6 A
operational current of auxiliary contacts at DC-13	• at 230 V	3 A
 at 24 V at 48 V at 60 V at 110 V at 125 V at 220 V at 250 V Ambient conditions 	• at 400 V	1.5 A
 at 48 V at 60 V at 110 V at 125 V at 220 V at 250 V Ambient conditions 2 A 2 A 2 A 3 A 4 A 5 A 6 C 7 A Ambient conditions	operational current of auxiliary contacts at DC-13	
 at 60 V at 110 V at 125 V at 220 V at 250 V 0.27 A Ambient conditions 	● at 24 V	6 A
 at 110 V at 125 V at 220 V at 250 V 0.27 A Ambient conditions 	● at 48 V	2 A
• at 125 V 0.55 A • at 220 V 0.27 A • at 250 V 0.27 A Ambient conditions	● at 60 V	2 A
	• at 110 V	1 A
at 250 V 0.27 A Ambient conditions	• at 125 V	0.55 A
Ambient conditions	• at 220 V	0.27 A
	• at 250 V	0.27 A
ambient temperature	Ambient conditions	
	ambient temperature	

 during operation 	-25 +55 °C
during storage	-40 +80 °C
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RT148
 positively driven operation according to IEC 60947-5-1 	No
Installation/ mounting/ dimensions	
fastening method	screw fixing
height	72 mm
width	12.8 mm
depth	65.5 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 	1 2.5 mm²
finely stranded with core end processing	1 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (1 2,5 mm²)
— solid or stranded	2x (1 2.5 mm²)
 finely stranded with core end processing 	2x (1 2,5 mm²)
for AWG cables for auxiliary contacts	2x (16 14)
AWG number as coded connectable conductor cross section for auxiliary contacts	16 14

Approvals Certificates

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity



Confirmation





Type Examination Certificate





Special Test Certific-

Confirmation

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

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

<u>vn-russian-business</u>

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=3RH1981-1JA11

Cax online generator

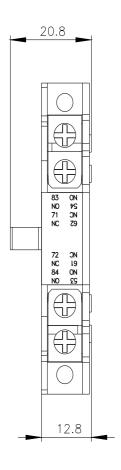
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1981-1JA11

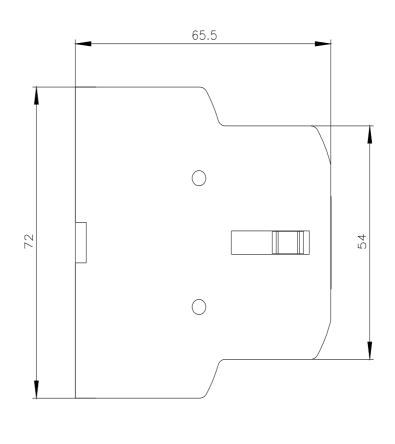
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH1981-1JA11

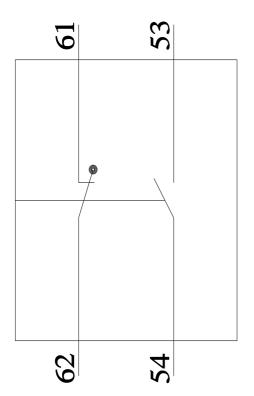
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1981-1JA11&lang=en

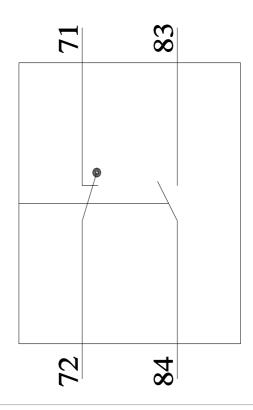




Links / left



Rechts / right



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