



solid-state time-delayed front-side auxiliary switch Time range 5...100 s, 24 V AC/DC, 1 NO contact, 1 NC contact OFF delay, without control signal for 3RT1

product brand name	SIRIUS
product designation	auxiliary switch
design of the product	With OFF-delay
product type designation	3RT19
General technical data	
size of contactor can be combined company-specific	S0 ... S12
product component semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 ... 55 Hz: 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	5 ... 100 s
relative setting accuracy relating to full-scale value	15 %
minimum ON period	200 ms
recovery time	150 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	07/01/2006
Product Function	
product function star-delta circuit	No
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
control supply voltage frequency 1	50 ... 60 Hz
control supply voltage 1	
• at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85

<ul style="list-style-type: none"> • full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • full-scale value 	1.1

Switching Function

switching function	
<ul style="list-style-type: none"> • ON-delay 	No
<ul style="list-style-type: none"> • ON-delay/instantaneous contact 	No
<ul style="list-style-type: none"> • passing make contact 	No
<ul style="list-style-type: none"> • passing make contact/instantaneous contact 	No
<ul style="list-style-type: none"> • OFF delay 	Yes
switching function	
<ul style="list-style-type: none"> • flashing symmetrically with interval start/instantaneous 	No
<ul style="list-style-type: none"> • flashing symmetrically with interval start 	No
<ul style="list-style-type: none"> • flashing symmetrically with pulse start/instantaneous 	No
<ul style="list-style-type: none"> • flashing symmetrically with pulse start 	No
<ul style="list-style-type: none"> • flashing asymmetrically with interval start 	No
<ul style="list-style-type: none"> • flashing asymmetrically with pulse start 	No
switching function	
<ul style="list-style-type: none"> • constant clock cycle with pulse start 	No
<ul style="list-style-type: none"> • constant clock cycle with interval start 	No
switching function	
<ul style="list-style-type: none"> • variably clocked with pulse start 	No
<ul style="list-style-type: none"> • variably clocked with interval start 	No
switching function	
<ul style="list-style-type: none"> • star-delta circuit with delay time 	No
<ul style="list-style-type: none"> • star-delta circuit 	No
switching function with control signal	
<ul style="list-style-type: none"> • additive ON-delay 	No
<ul style="list-style-type: none"> • passing break contact 	No
<ul style="list-style-type: none"> • passing break contact/instantaneous 	No
<ul style="list-style-type: none"> • OFF delay 	No
<ul style="list-style-type: none"> • OFF delay/instantaneous 	No
<ul style="list-style-type: none"> • pulse delayed 	No
<ul style="list-style-type: none"> • pulse delayed/instantaneous 	No
<ul style="list-style-type: none"> • pulse-shaping 	No
<ul style="list-style-type: none"> • pulse-shaping/instantaneous 	No
<ul style="list-style-type: none"> • additive ON-delay/instantaneous 	No
<ul style="list-style-type: none"> • ON-delay/OFF-delay 	No
<ul style="list-style-type: none"> • ON-delay/OFF-delay/instantaneous 	No
<ul style="list-style-type: none"> • passing make contact 	No
<ul style="list-style-type: none"> • passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
<ul style="list-style-type: none"> • retrotriggerable with deactivated control signal/instantaneous contact 	No
<ul style="list-style-type: none"> • retrotriggerable with switched-on control signal 	No
<ul style="list-style-type: none"> • retrotriggerable with switched-on control signal/instantaneous contact 	No
<ul style="list-style-type: none"> • retriggerable with deactivated control signal 	No
design of the control terminal non-floating	No

Short-circuit protection

design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
---	-----------------

Auxiliary circuit

number of NC contacts	
<ul style="list-style-type: none"> • delayed switching 	1
<ul style="list-style-type: none"> • instantaneous contact 	0
number of NO contacts	
<ul style="list-style-type: none"> • delayed switching 	1
<ul style="list-style-type: none"> • instantaneous contact 	0
number of CO contacts	

<ul style="list-style-type: none"> • delayed switching • instantaneous contact 	0
operational current of auxiliary contacts at AC-15	0
<ul style="list-style-type: none"> • maximum 	3 A
operational current of auxiliary contacts as NC contact at AC-15	
<ul style="list-style-type: none"> • at 24 V • at 250 V 	3 A 3 A
operational current of auxiliary contacts as NO contact at AC-15	
<ul style="list-style-type: none"> • at 24 V • at 250 V 	3 A 3 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> • at 24 V • at 125 V • at 250 V 	1 A 0.2 A 0.1 A
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • at the relay outputs switchover delayed/without delay • non-volatile 	No No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 	2 kV network connection / 1 kV control connection 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) 2x (20 ... 14) 2x (20 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing 	0.5 ... 4 m ² 0.5 ... 2.5 m ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • solid • stranded 	18 ... 14 18 ... 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	clip-on
height	46 mm
width	33 mm
depth	73 mm
required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards 	0 m 0 m 0 m 0 m

- at the side 0 m
- for grounded parts
 - forwards 0 m
 - backwards 0 m
 - upwards 0 m
 - at the side 0 m
 - downwards 0 m
- for live parts
 - forwards 0 m
 - backwards 0 m
 - upwards 0 m
 - downwards 0 m
 - at the side 0 m

Ambient conditions

installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
relative humidity during operation	15 ... 95 %

Certificates/ approvals

General Product Approval

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



PRS

Marine / Shipping

other

Railway



RINA



DNV-GL

[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

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=3RT1926-2FJ31>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1926-2FJ31>

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

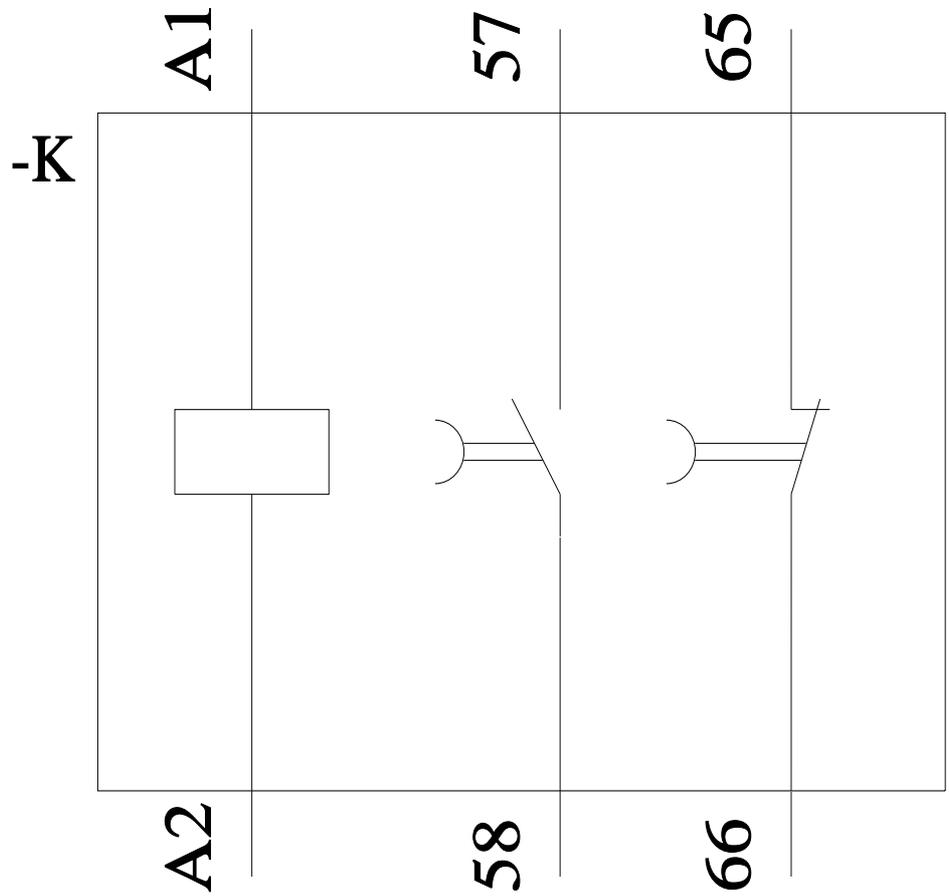
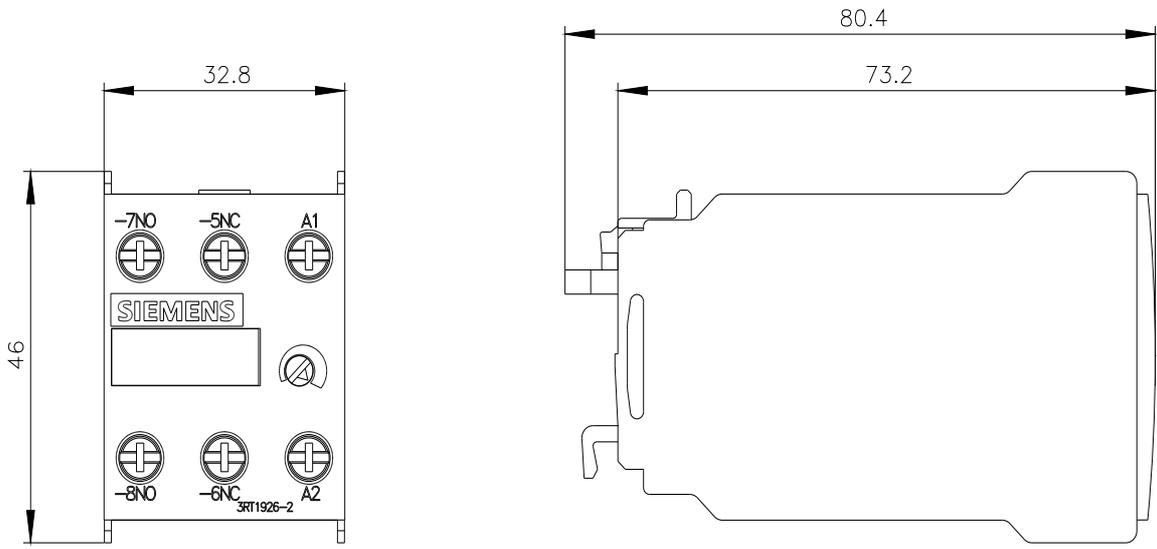
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2FJ31>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1926-2FJ31&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2FJ31/manual>



last modified:

12/19/2020

