



Solid-state time-delayed auxiliary switch, can be snapped on at the front, time range 1.5...30s, 100 ... 127 V AC, 2 NO, star-delta (wye-delta) function, sizes S6...S12

| | |
|--------------------------|---------------------------------|
| product brand name | SIRIUS |
| product designation | auxiliary switch |
| design of the product | Star-delta (wye-delta) function |
| 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 (switching cycles) typical | 10 000 000 |
| electrical endurance (switching cycles) at AC-15 at 230 V typical | 100 000 |
| adjustable time | 1.5 ... 30 s |
| relative setting accuracy relating to full-scale value | 15 % |
| 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 | Yes |
|-------------------------------------|-----|

Control circuit/ Control

| | |
|--|---------------|
| type of voltage of the control supply voltage | AC |
| control supply voltage 1 at AC | |
| • at 50 Hz | 100 ... 127 V |
| • at 60 Hz | 100 ... 127 V |
| control supply voltage frequency 1 | 50 ... 60 Hz |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |

Switching Function

| | |
|--------------------|--|
| switching function | |
|--------------------|--|

| | |
|--|-----|
| • ON-delay | No |
| • ON-delay/instantaneous contact | No |
| • passing make contact | No |
| • passing make contact/instantaneous contact | No |
| • OFF delay | No |
| switching function | |
| • flashing symmetrically with interval start/instantaneous | No |
| • flashing symmetrically with interval start | No |
| • flashing symmetrically with pulse start/instantaneous | No |
| • flashing symmetrically with pulse start | No |
| • flashing asymmetrically with interval start | No |
| • flashing asymmetrically with pulse start | No |
| switching function | |
| • constant clock cycle with pulse start | No |
| • constant clock cycle with interval start | No |
| switching function | |
| • variably clocked with pulse start | No |
| • variably clocked with interval start | No |
| switching function | |
| • star-delta circuit with delay time | No |
| • star-delta circuit | Yes |
| switching function with control signal | |
| • additive ON-delay | No |
| • passing break contact | No |
| • passing break contact/instantaneous | No |
| • OFF delay | No |
| • OFF delay/instantaneous | No |
| • pulse delayed | No |
| • pulse delayed/instantaneous | No |
| • pulse-shaping | No |
| • pulse-shaping/instantaneous | No |
| • additive ON-delay/instantaneous | No |
| • ON-delay/OFF-delay | No |
| • ON-delay/OFF-delay/instantaneous | No |
| • passing make contact | No |
| • passing make contact/instantaneous contact | No |
| switching function of interval relay with control signal | |
| • retrotriggerable with deactivated control signal/instantaneous contact | No |
| • retrotriggerable with switched-on control signal | No |
| • retrotriggerable with switched-on control signal/instantaneous contact | No |
| • 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 | |
| • delayed switching | 0 |
| • instantaneous contact | 0 |
| number of NO contacts | |
| • delayed switching | 1 |
| • instantaneous contact | 1 |
| number of CO contacts | |
| • delayed switching | 0 |
| • instantaneous contact | 0 |
| operational current of auxiliary contacts at AC-15 | |
| • maximum | 3 A |
| operational current of auxiliary contacts as NC contact at AC-15 | |
| • at 24 V | 3 A |
| • at 250 V | 3 A |

operational current of auxiliary contacts as NO contact at AC-15

- at 24 V
- at 250 V

3 A
3 A

operational current of auxiliary contacts at DC-13

- at 24 V
- at 125 V
- at 250 V

1 A
0.2 A
0.1 A

Inputs/ Outputs**product function**

- 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

- 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

- solid
- finely stranded with core end processing
- at AWG cables solid
- at AWG cables stranded

1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
2x (20 ... 14)
2x (20 ... 14)

connectable conductor cross-section

- solid
- finely stranded with core end processing

0.5 ... 4 m²
0.5 ... 2.5 m²

AWG number as coded connectable conductor cross section

- 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

- with side-by-side mounting
 - forwards
 - backwards
 - upwards
 - downwards
 - at the side
- for grounded parts
 - forwards
 - backwards
 - upwards
 - at the side
 - downwards
- for live parts

0 m
0 m
0 m
0 m
0 m
0 m
0 m
0 m
0 m
0 m

- 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



[Special Test Certificate](#)



Marine / Shipping

other

Railway



[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=3RT1926-2GC51>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1926-2GC51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2GC51>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1926-2GC51&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2GC51/manual>

