



solid-state time-delayed front-side auxiliary switch Time range 5...100 s, 200 ... 240 V AC, 1 NO contact, 1 NC contact ON delay, for 3RT1

|  |                       |
|--|-----------------------|
| <b>product brand name</b>  | SIRIUS                |
| <b>product designation</b>   | auxiliary switch      |
| <b>design of the product</b>   | slow-operating        |
| <b>product type designation</b>  | 3RT19                 |
| <b>General technical data</b>  |                       |
| <b>size of contactor can be combined company-specific</b>  | S0 ... S12            |
| <b>product component semi-conductor output</b>   | No                    |
| <b>product extension required remote control</b>   | No                    |
| <b>product extension optional remote control</b>   | No                    |
| <b>insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value</b> | 300 V                 |
| <b>degree of pollution</b>   | 3                     |
| <b>surge voltage resistance rated value</b>  | 4 000 V               |
| <b>shock resistance acc. to IEC 60068-2-27</b>   | 11g / 15 ms           |
| <b>vibration resistance acc. to IEC 60068-2-6</b>  | 10 ... 55 Hz: 0.35 mm |
| <b>mechanical service life (switching cycles) typical</b>  | 10 000 000            |
| <b>electrical endurance (switching cycles) at AC-15 at 230 V typical</b>   | 100 000               |
| <b>adjustable time</b>   | 5 ... 100 s           |
| <b>relative setting accuracy relating to full-scale value</b>  | 15 %                  |
| <b>recovery time</b>   | 150 ms                |
| <b>reference code acc. to IEC 81346-2</b>  | K                     |
| <b>relative repeat accuracy</b>  | 1 %                   |
| <b>Product Function</b>  |                       |
| <b>product function star-delta circuit</b>   | No                    |
| <b>Control circuit/ Control</b>  |                       |
| <b>type of voltage of the control supply voltage</b>   | AC                    |
| <b>control supply voltage 1 at AC</b>  |                       |
| • at 50 Hz   | 200 ... 240 V         |
| • at 60 Hz   | 200 ... 240 V         |
| <b>control supply voltage frequency 1</b>  | 50 ... 60 Hz          |
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>                                      |                       |
| • initial value  | 0.85                  |
| • full-scale value   | 1.1                   |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>                                      |                       |
| • initial value  | 0.85                  |

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| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>   | 1.1  |
| <b>Switching Function</b>  |  |
| <b>switching function</b> <ul style="list-style-type: none"> <li>• ON-delay</li> <li>• ON-delay/instantaneous contact</li> <li>• passing make contact</li> <li>• passing make contact/instantaneous contact</li> <li>• OFF delay</li> </ul>  | Yes<br>No<br>No<br>No<br>No  |
| <b>switching function</b> <ul style="list-style-type: none"> <li>• flashing symmetrically with interval start/instantaneous</li> <li>• flashing symmetrically with interval start</li> <li>• flashing symmetrically with pulse start/instantaneous</li> <li>• flashing symmetrically with pulse start</li> <li>• flashing asymmetrically with interval start</li> <li>• flashing asymmetrically with pulse start</li> </ul>  | No<br>No<br>No<br>No<br>No<br>No   |
| <b>switching function</b> <ul style="list-style-type: none"> <li>• constant clock cycle with pulse start</li> <li>• constant clock cycle with interval start</li> </ul>  | No<br>No   |
| <b>switching function</b> <ul style="list-style-type: none"> <li>• variably clocked with pulse start</li> <li>• variably clocked with interval start</li> </ul>  | No<br>No   |
| <b>switching function</b> <ul style="list-style-type: none"> <li>• star-delta circuit with delay time</li> <li>• star-delta circuit</li> </ul>   | No<br>No   |
| <b>switching function with control signal</b> <ul style="list-style-type: none"> <li>• additive ON-delay</li> <li>• passing break contact</li> <li>• passing break contact/instantaneous</li> <li>• OFF delay</li> <li>• OFF delay/instantaneous</li> <li>• pulse delayed</li> <li>• pulse delayed/instantaneous</li> <li>• pulse-shaping</li> <li>• pulse-shaping/instantaneous</li> <li>• additive ON-delay/instantaneous</li> <li>• ON-delay/OFF-delay</li> <li>• ON-delay/OFF-delay/instantaneous</li> <li>• passing make contact</li> <li>• passing make contact/instantaneous contact</li> </ul> | No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No |
| <b>switching function of interval relay with control signal</b> <ul style="list-style-type: none"> <li>• retrotriggerable with deactivated control signal/instantaneous contact</li> <li>• retrotriggerable with switched-on control signal</li> <li>• retrotriggerable with switched-on control signal/instantaneous contact</li> <li>• retriggerable with deactivated control signal</li> </ul>  | No<br>No<br>No<br>No   |
| <b>design of the control terminal non-floating</b>   | No   |
| <b>Short-circuit protection</b>  |  |
| design of the fuse link for short-circuit protection of the auxiliary switch required  | fuse gL/gG: 4 A  |
| <b>Auxiliary circuit</b>   |  |
| <b>number of NC contacts</b> <ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>  | 1<br>0   |
| <b>number of NO contacts</b> <ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>  | 1<br>0   |

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

- with side-by-side mounting
  - forwards 0 m
  - backwards 0 m
  - upwards 0 m
  - downwards 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

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

#### Ambient conditions

|  |  |
|--|--|
| installation altitude at height above sea level maximum  | 2 000 m  |
| <ul style="list-style-type: none"> <li>• ambient temperature during operation</li> <li>• ambient temperature during storage</li> <li>• ambient temperature during transport</li> </ul> | -25 ... +60 °C<br>-40 ... +85 °C<br>-40 ... +85 °C |
| relative humidity during operation   | 15 ... 95 %  |

#### Certificates/ approvals

|                          |     |                           |
|--------------------------|-----|---------------------------|
| General Product Approval | EMC | Declaration of Conformity |
|--------------------------|-----|---------------------------|



[Miscellaneous](#)

|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[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=3RT1926-2ED31>

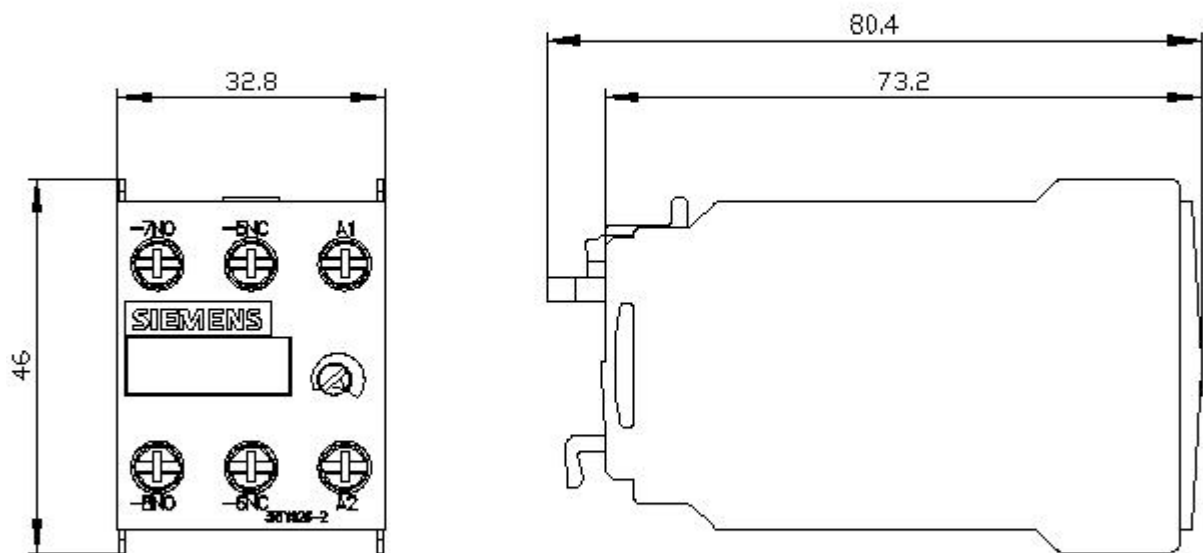
Cax online generator

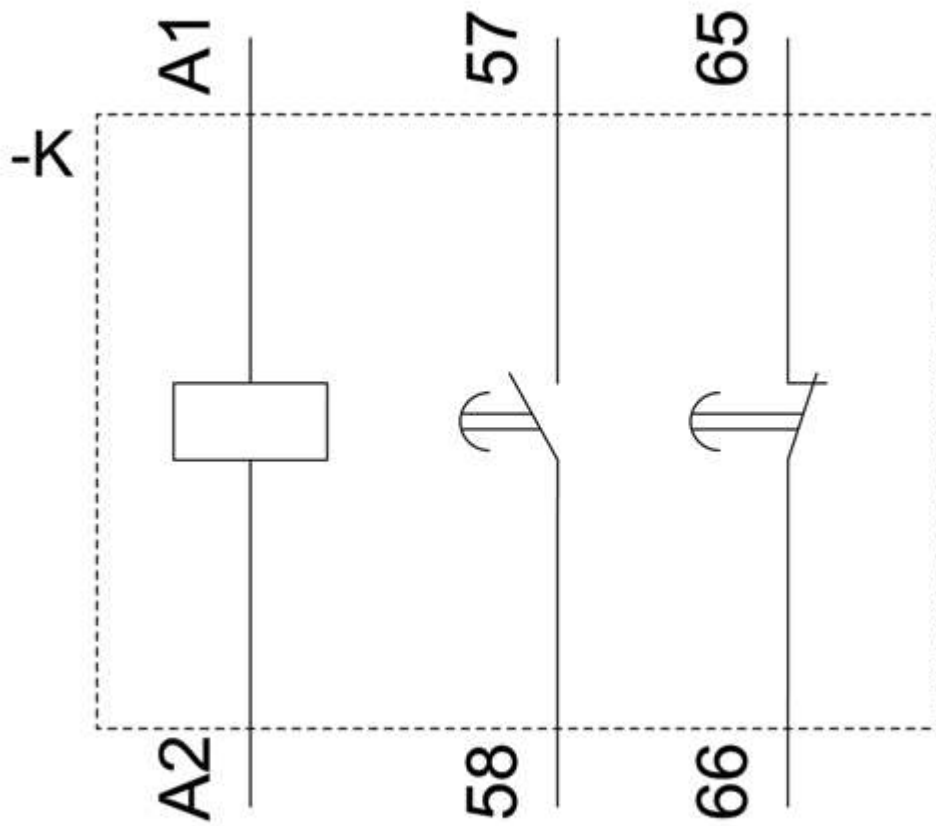
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1926-2ED31>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2ED31>

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





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