



Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 1...20 s 12-240 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (push-in)

|                                                                                                               |                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                            | SIRIUS                                                                                                                                                                                                                                              |
| product designation                                                                                           | timing relay                                                                                                                                                                                                                                        |
| design of the product                                                                                         | Star-delta (wye-delta) function                                                                                                                                                                                                                     |
| product type designation                                                                                      | 3RP25                                                                                                                                                                                                                                               |
| General technical data                                                                                        |                                                                                                                                                                                                                                                     |
| product feature protective coating on printed-circuit board                                                   | No                                                                                                                                                                                                                                                  |
| product component                                                                                             |                                                                                                                                                                                                                                                     |
| • relay output                                                                                                | Yes                                                                                                                                                                                                                                                 |
| • semi-conductor output                                                                                       | No                                                                                                                                                                                                                                                  |
| product extension required remote control                                                                     | No                                                                                                                                                                                                                                                  |
| product extension optional remote control                                                                     | No                                                                                                                                                                                                                                                  |
| power loss [W] maximum                                                                                        | 2 W                                                                                                                                                                                                                                                 |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V                                                                                                                                                                                                                                               |
| test voltage for isolation test                                                                               | 2.5 kV                                                                                                                                                                                                                                              |
| degree of pollution                                                                                           | 3                                                                                                                                                                                                                                                   |
| surge voltage resistance rated value                                                                          | 4 000 V                                                                                                                                                                                                                                             |
| shock resistance according to IEC 60068-2-27                                                                  | 11 g / 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                                                                                               | 1 ... 20 s                                                                                                                                                                                                                                          |
| relative setting accuracy relating to full-scale value                                                        | 5 %; +/-                                                                                                                                                                                                                                            |
| thermal current                                                                                               | 5 A                                                                                                                                                                                                                                                 |
| recovery time                                                                                                 | 250 ms                                                                                                                                                                                                                                              |
| reference code according to IEC 81346-2                                                                       | K                                                                                                                                                                                                                                                   |
| relative repeat accuracy                                                                                      | 1 %; +/-                                                                                                                                                                                                                                            |
| influence of the surrounding temperature                                                                      | 1% in the whole temperature range to the set runtime                                                                                                                                                                                                |
| power supply influence                                                                                        | 1% in the whole voltage range to the set runtime                                                                                                                                                                                                    |
| Substance Prohibitance (day/month/year)                                                                       | 09/12/2014                                                                                                                                                                                                                                          |
| SVHC substance name                                                                                           | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| Net Weight                                                                                                    | 0.145 kg                                                                                                                                                                                                                                            |
| Control circuit/ Control                                                                                      |                                                                                                                                                                                                                                                     |
| type of voltage of the control supply voltage                                                                 | AC/DC                                                                                                                                                                                                                                               |
| control supply voltage at AC                                                                                  |                                                                                                                                                                                                                                                     |
| • at 50 Hz rated value                                                                                        | 12 ... 240 V                                                                                                                                                                                                                                        |

|                                                                                                                            |              |
|----------------------------------------------------------------------------------------------------------------------------|--------------|
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>                                                   | 12 ... 240 V |
| <b>control supply voltage 1 at AC</b>                                                                                      |              |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                               | 12 ... 240 V |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                                               | 12 ... 240 V |
| <b>control supply voltage frequency 1</b>                                                                                  | 50 ... 60 Hz |
| <b>control supply voltage at DC rated value</b>                                                                            | 12 ... 240 V |
| <b>control supply voltage 1 at DC</b>                                                                                      | 12 ... 240 V |
| <b>operating range factor control supply voltage rated value at DC</b>                                                     |              |
| <ul style="list-style-type: none"> <li>• initial value</li> </ul>                                                          | 0.8          |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                                       | 1.1          |
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>                                            |              |
| <ul style="list-style-type: none"> <li>• initial value</li> </ul>                                                          | 0.8          |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                                       | 1.1          |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>                                            |              |
| <ul style="list-style-type: none"> <li>• initial value</li> </ul>                                                          | 0.8          |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                                       | 1.1          |
| <b>inrush current peak</b>                                                                                                 |              |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                                | 0.5 A        |
| <ul style="list-style-type: none"> <li>• at 240 V</li> </ul>                                                               | 5 A          |
| <b>duration of inrush current peak</b>                                                                                     |              |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                                | 0.4 ms       |
| <ul style="list-style-type: none"> <li>• at 240 V</li> </ul>                                                               | 0.5 ms       |
| <b>Switching Function</b>                                                                                                  |              |
| <b>switching function</b>                                                                                                  |              |
| <ul style="list-style-type: none"> <li>• ON-delay</li> </ul>                                                               | No           |
| <ul style="list-style-type: none"> <li>• ON-delay/instantaneous contact</li> </ul>                                         | No           |
| <ul style="list-style-type: none"> <li>• passing make contact</li> </ul>                                                   | No           |
| <ul style="list-style-type: none"> <li>• passing make contact/instantaneous contact</li> </ul>                             | No           |
| <ul style="list-style-type: none"> <li>• OFF delay</li> </ul>                                                              | No           |
| <b>switching function</b>                                                                                                  |              |
| <ul style="list-style-type: none"> <li>• flashing symmetrically with interval start/instantaneous</li> </ul>               | No           |
| <ul style="list-style-type: none"> <li>• flashing symmetrically with interval start</li> </ul>                             | No           |
| <ul style="list-style-type: none"> <li>• flashing symmetrically with pulse start/instantaneous</li> </ul>                  | No           |
| <ul style="list-style-type: none"> <li>• flashing symmetrically with pulse start</li> </ul>                                | No           |
| <ul style="list-style-type: none"> <li>• flashing asymmetrically with interval start</li> </ul>                            | No           |
| <ul style="list-style-type: none"> <li>• flashing asymmetrically with pulse start</li> </ul>                               | No           |
| <b>switching function</b>                                                                                                  |              |
| <ul style="list-style-type: none"> <li>• star-delta circuit with delay time</li> </ul>                                     | No           |
| <ul style="list-style-type: none"> <li>• star-delta circuit</li> </ul>                                                     | Yes          |
| <b>switching function with control signal</b>                                                                              |              |
| <ul style="list-style-type: none"> <li>• additive ON-delay</li> </ul>                                                      | No           |
| <ul style="list-style-type: none"> <li>• passing break contact</li> </ul>                                                  | No           |
| <ul style="list-style-type: none"> <li>• passing break contact/instantaneous</li> </ul>                                    | No           |
| <ul style="list-style-type: none"> <li>• OFF delay</li> </ul>                                                              | No           |
| <ul style="list-style-type: none"> <li>• OFF delay/instantaneous</li> </ul>                                                | No           |
| <ul style="list-style-type: none"> <li>• pulse delayed</li> </ul>                                                          | No           |
| <ul style="list-style-type: none"> <li>• pulse delayed/instantaneous</li> </ul>                                            | No           |
| <ul style="list-style-type: none"> <li>• pulse-shaping</li> </ul>                                                          | No           |
| <ul style="list-style-type: none"> <li>• pulse-shaping/instantaneous</li> </ul>                                            | No           |
| <ul style="list-style-type: none"> <li>• additive ON-delay/instantaneous</li> </ul>                                        | No           |
| <ul style="list-style-type: none"> <li>• ON-delay/OFF-delay/instantaneous</li> </ul>                                       | No           |
| <ul style="list-style-type: none"> <li>• passing make contact</li> </ul>                                                   | No           |
| <ul style="list-style-type: none"> <li>• passing make contact/instantaneous contact</li> </ul>                             | 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> </ul> | No           |
| <ul style="list-style-type: none"> <li>• retrotriggerable with switched-on control signal</li> </ul>                       | No           |

|                                                                                                                            |                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• retrotriggerable with switched-on control signal/instantaneous contact</li> </ul> | No                                                                                 |
| <ul style="list-style-type: none"> <li>• retriggerable with deactivated control signal</li> </ul>                          | 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>material of switching contacts</b>                                                                                      | AgSnO <sub>2</sub>                                                                 |
| <b>number of NC contacts</b>                                                                                               |                                                                                    |
| <ul style="list-style-type: none"> <li>• delayed switching</li> </ul>                                                      | 0                                                                                  |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                  | 0                                                                                  |
| <b>number of NO contacts</b>                                                                                               |                                                                                    |
| <ul style="list-style-type: none"> <li>• delayed switching</li> </ul>                                                      | 1                                                                                  |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                  | 1                                                                                  |
| <b>number of CO contacts</b>                                                                                               |                                                                                    |
| <ul style="list-style-type: none"> <li>• delayed switching</li> </ul>                                                      | 0                                                                                  |
| <ul style="list-style-type: none"> <li>• instantaneous contact</li> </ul>                                                  | 0                                                                                  |
| <b>operational current of auxiliary contacts at AC-15</b>                                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                                | 3 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>                                                               | 3 A                                                                                |
| <b>operational current of auxiliary contacts at DC-13</b>                                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                                | 1 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 125 V</li> </ul>                                                               | 0.2 A                                                                              |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>                                                               | 0.1 A                                                                              |
| <b>operating frequency with 3RT2 contactor maximum</b>                                                                     | 5 000 1/h                                                                          |
| <b>contact reliability of auxiliary contacts</b>                                                                           | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                | R300 / B300                                                                        |
| <b>switching capacity current with inductive load</b>                                                                      | 0.01 ... 3 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> </ul>                  | No                                                                                 |
| <ul style="list-style-type: none"> <li>• non-volatile</li> </ul>                                                           | No                                                                                 |
| <b>ampacity of the output relay at DC-13</b>                                                                               |                                                                                    |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                                | 1 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 125 V</li> </ul>                                                               | 0.2 A                                                                              |
| <b>Electromagnetic compatibility</b>                                                                                       |                                                                                    |
| EMC emitted interference according to IEC 61812-1                                                                          | ambience A (industrial sector)                                                     |
| EMC immunity according to IEC 61812-1                                                                                      | corresponds to degree of severity 3                                                |
| <b>conducted interference</b>                                                                                              |                                                                                    |
| <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> </ul>                                | 2 kV network connection / 1 kV control connection                                  |
| <ul style="list-style-type: none"> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> </ul>                | 2 kV                                                                               |
| <ul style="list-style-type: none"> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>            | 1 kV                                                                               |
| <b>field-based interference according to IEC 61000-4-3</b>                                                                 | 10 V/m                                                                             |
| <b>electrostatic discharge according to IEC 61000-4-2</b>                                                                  | 4 kV contact discharge / 8 kV air discharge                                        |
| <b>Safety related data</b>                                                                                                 |                                                                                    |
| category according to EN 954-1                                                                                             | none                                                                               |
| <b>Electrical Safety</b>                                                                                                   |                                                                                    |
| <b>protection class IP on the front according to IEC 60529</b>                                                             | IP20                                                                               |
| <b>type of insulation</b>                                                                                                  | Basic insulation                                                                   |
| <b>Connections/ Terminals</b>                                                                                              |                                                                                    |
| <b>product component removable terminal for auxiliary and control circuit</b>                                              | Yes                                                                                |
| <b>type of electrical connection</b>                                                                                       | spring-loaded terminal (push-in)                                                   |
| <ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>                                      | spring-loaded terminals (push-in)                                                  |
| <b>type of connectable conductor cross-sections</b>                                                                        |                                                                                    |
| <ul style="list-style-type: none"> <li>• solid</li> </ul>                                                                  | 1x (0.5 ... 4 mm <sup>2</sup> )                                                    |
| <ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>                               | 1x (0.5 ... 2.5 mm <sup>2</sup> )                                                  |
| <ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>                            | 0.5 ... 4 mm <sup>2</sup>                                                          |

|                                                                                                                                                                                                                 |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for AWG cables solid</li> <li>• for AWG cables stranded</li> </ul>                                                                                                     | 1x (20 ... 12)<br>20 ... 12                                                           |
| <b>connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> </ul> | 0.5 ... 4 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup><br>0.5 ... 4 mm <sup>2</sup> |
| <b>AWG number as coded connectable conductor cross section</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>                                                                    | 20 ... 12<br>20 ... 12                                                                |

#### Installation/ mounting/ dimensions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | any                                                                                                                          |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | screw and snap-on mounting onto 35 mm DIN rail                                                                               |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100 mm                                                                                                                       |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 22.5 mm                                                                                                                      |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 90 mm                                                                                                                        |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm |

#### Ambient conditions

|                                                                                                                                                       |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| installation altitude at height above sea level maximum                                                                                               | 2 000 m                                            |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | -25 ... +60 °C<br>-40 ... +85 °C<br>-40 ... +85 °C |
| relative humidity during operation                                                                                                                    | 10 ... 95 %                                        |

#### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

[Environmental Confirmations](#)



|            |                          |                             |
|------------|--------------------------|-----------------------------|
| <b>EMV</b> | <b>Test Certificates</b> | <b>Maritime application</b> |
|------------|--------------------------|-----------------------------|



[Type Test Certificates/Test Report](#)



|                             |              |
|-----------------------------|--------------|
| <b>Maritime application</b> | <b>other</b> |
|-----------------------------|--------------|



[Confirmation](#)



#### Further information

##### Information on the packaging

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

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### 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=3RP2574-2NW30>

##### Cax online generator

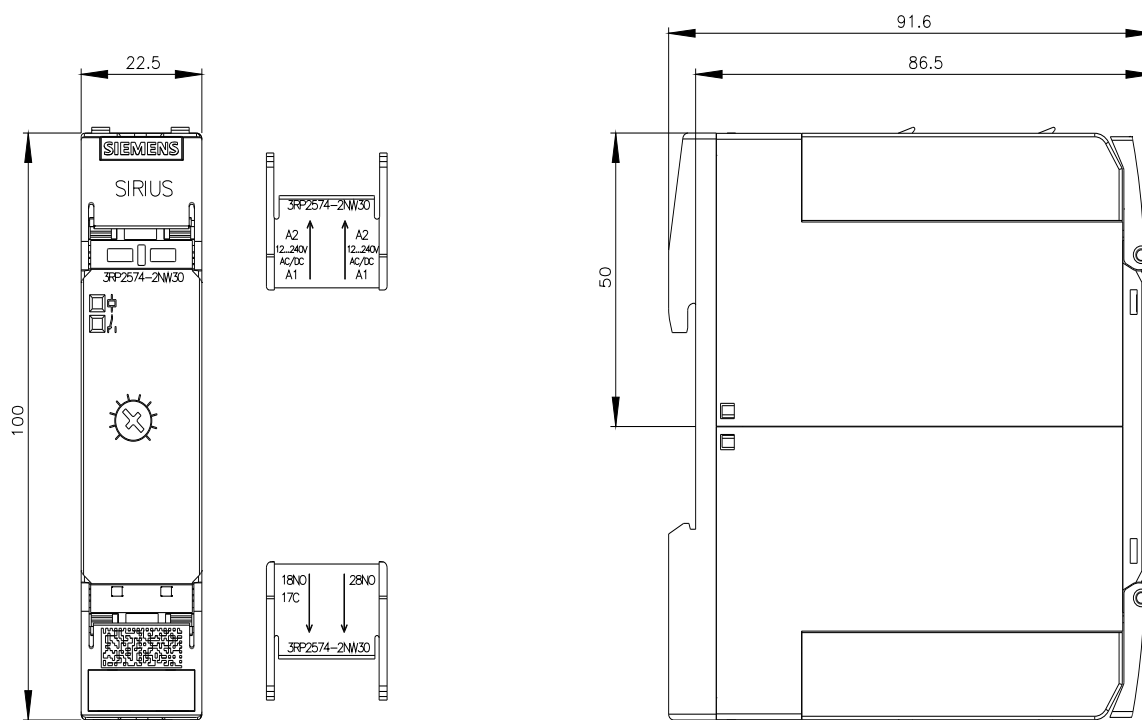
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2574-2NW30>

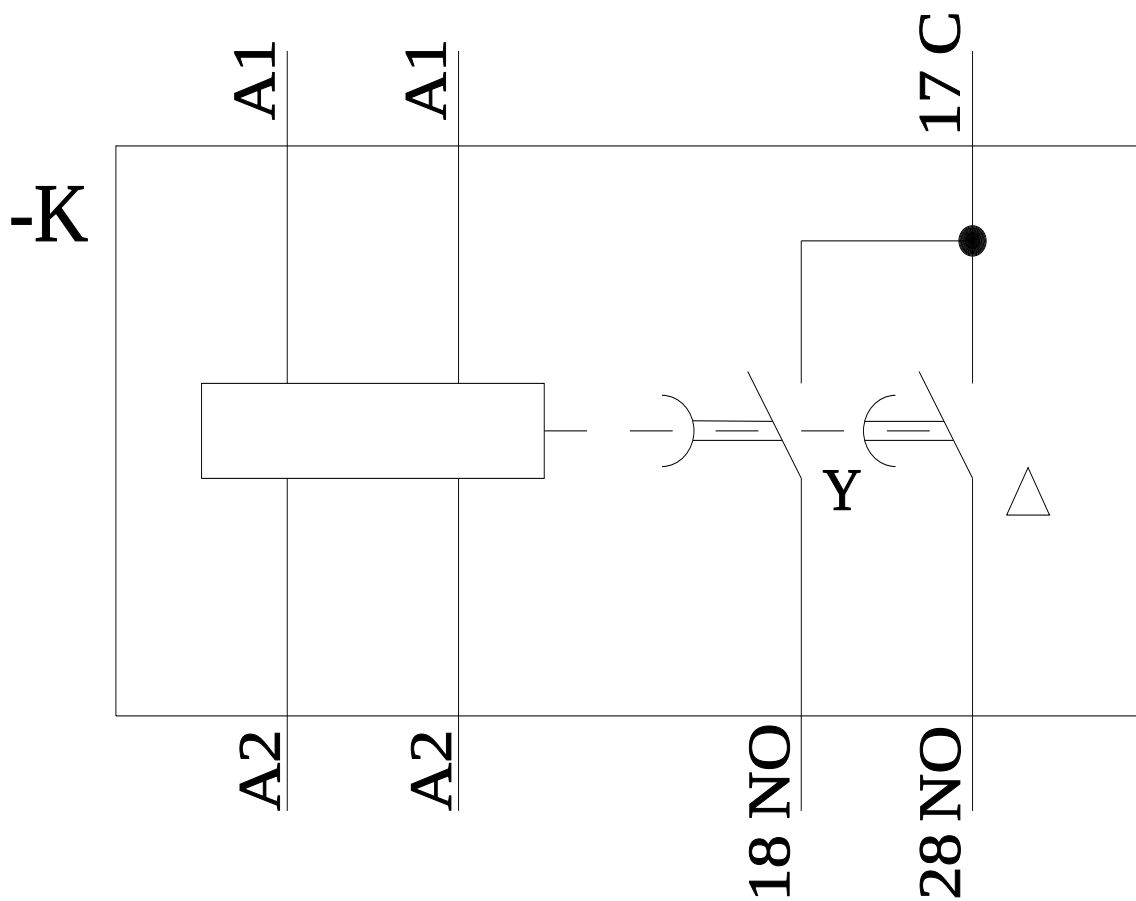
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RP2574-2NW30>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP2574-2NW30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2574-2NW30&lang=en)





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