



TIME RELAY, OFF-DELAY !!! PHASE-OUT PRODUCT  
!!! FOR FURTHER INFORMATION PLEASE CONTACT  
OUR SALES STAFF! W. AUXIL. SW., 1 C, 0.5 S...10 S  
AC 24,200...240 V AND DC 24 V, WITH LED

| General technical data:                                   |    |                                                   |
|-----------------------------------------------------------|----|---------------------------------------------------|
| product brand name                                        |    | SIRIUS                                            |
| Product designation                                       |    | timing relay                                      |
| Mounting position                                         |    | any                                               |
| Product function non-volatile                             |    | No                                                |
| Product component                                         |    |                                                   |
| • Relay output                                            |    | Yes                                               |
| • semi-conductor output                                   |    | No                                                |
| Installation altitude at height above sea level maximum   | m  | 2 000                                             |
| Ambient temperature                                       |    |                                                   |
| • during operation                                        | °C | -25 ... +60                                       |
| • during storage                                          | °C | -40 ... +85                                       |
| • during transport                                        | °C | -40 ... +85                                       |
| Relative humidity during operation                        | %  | 10 ... 95                                         |
| EMC emitted interference acc. to IEC 61812-1              |    | EN 61000-6-4(3)                                   |
| EMI immunity acc. to IEC 61812-1                          |    | EN 61000-6-2                                      |
| Conducted interference due to burst acc. to IEC 61000-4-4 |    | 2 kV network connection / 1 kV control connection |

|                                                                                                               |     |                                             |
|---------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------|
| Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5                                     |     | 2 kV                                        |
| Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5                                 |     | 1 kV                                        |
| Electrostatic discharge acc. to IEC 61000-4-2                                                                 |     | 4 kV contact discharge / 8 kV air discharge |
| Field-bound parasitic coupling acc. to IEC 61000-4-3                                                          |     | 10 V/m                                      |
| Surge voltage resistance rated value                                                                          | V   | 4 000                                       |
| Power loss [W] total typical                                                                                  | W   | 2                                           |
| Equipment marking                                                                                             |     |                                             |
| • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750                                           |     | K                                           |
| • acc. to DIN EN 61346-2                                                                                      |     | K                                           |
| • acc. to DIN EN 81346-2                                                                                      |     | K                                           |
| Category acc. to EN 954-1                                                                                     |     | none                                        |
| Protection against electrical shock                                                                           |     | finger-safe                                 |
| Protection class IP                                                                                           |     | IP20                                        |
| Type of insulation                                                                                            |     | Basic insulation                            |
| Mechanical service life (switching cycles) typical                                                            |     | 10 000 000                                  |
| Electrical endurance (switching cycles) at AC-15 at 230 V typical                                             |     | 100 000                                     |
| Operating frequency with 3RT2 contactor maximum                                                               | 1/h | 5 000                                       |
| Vibration resistance acc. to IEC 60068-2-6                                                                    |     | 10 ... 55 Hz / 0.35 mm                      |
| Shock resistance acc. to IEC 60068-2-27                                                                       |     | 11g / 15 ms                                 |
| Relative repeat accuracy                                                                                      | %   | 1                                           |
| Recovery time                                                                                                 | ms  | 150                                         |
| Minimum ON period                                                                                             | ms  | 35                                          |
| Degree of pollution                                                                                           |     | 3                                           |
| Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | V   | 300                                         |
| Relative setting accuracy relating to full-scale value                                                        | %   | 5                                           |
| Product extension required remote control                                                                     |     | No                                          |
| Product extension optional remote control                                                                     |     | No                                          |

#### 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 |
| • flashing asymmetrically starting with interval |  | No |
| • flashing asymmetrically starting with pulse    |  | No |
| • flashing symmetrically starting with pulse     |  | No |

|                                                                          |  |     |
|--------------------------------------------------------------------------|--|-----|
| • flashing symmetrically starting with pulse/instantaneous               |  | No  |
| • flashing symmetrically starting with interval                          |  | No  |
| • flashing symmetrically starting with interval/instantaneous            |  | No  |
| • star-delta circuit                                                     |  | No  |
| • star-delta circuit with delay time                                     |  | No  |
| <b>Switching function with control signal</b>                            |  |     |
| • additive ON delay                                                      |  | No  |
| • passing break contact                                                  |  | No  |
| • OFF delay                                                              |  | Yes |
| • pulse-shaping                                                          |  | No  |
| • OFF delay/instantaneous                                                |  | No  |
| • ON-delay/OFF-delay/instantaneous                                       |  | No  |
| • passing break contact/instantaneous                                    |  | No  |
| • additive ON delay/instantaneous                                        |  | No  |
| • ON-delay/OFF-delay                                                     |  | No  |
| • passing make contact                                                   |  | No  |
| • passing make contact/instantaneous contact                             |  | No  |
| • pulse delayed                                                          |  | No  |
| • pulse delayed/instantaneous                                            |  | No  |
| • pulse-shaping/instantaneous                                            |  | No  |
| <b>Switching function of interval relay with control signal</b>          |  |     |
| • retrotriggerable with deactivated control signal/instantaneous contact |  | No  |
| • retrotriggerable with activated control signal                         |  | No  |
| • retrotriggerable with activated control signal/instantaneous contact   |  | No  |
| • retriggerable with deactivated control signal                          |  | No  |
| <b>Design of the control terminal non-floating</b>                       |  | Yes |

#### Control circuit/ Control:

|                                                      |    |             |
|------------------------------------------------------|----|-------------|
| <b>Adjustable time</b>                               | s  | 0.5 ... 10  |
| <b>Type of voltage of the control supply voltage</b> |    | AC/DC       |
| <b>Control supply voltage frequency 1</b>            | Hz | 50 ... 60   |
| <b>Control supply voltage frequency 2</b>            | Hz | 50 ... 60   |
| <b>Control supply voltage 1</b>                      |    |             |
| • at AC at 50 Hz rated value                         | V  | 24          |
| • at AC at 60 Hz rated value                         | V  | 24          |
| • at DC rated value                                  | V  | 24          |
| <b>Control supply voltage 2 at AC</b>                |    |             |
| • at 50 Hz                                           | V  | 200 ... 240 |
| • at 60 Hz                                           | V  | 200 ... 240 |

|                                                                  |  |              |
|------------------------------------------------------------------|--|--------------|
| <b>Operating range factor control supply voltage rated value</b> |  |              |
| • at AC                                                          |  |              |
| — at 50 Hz                                                       |  | 0.85 ... 1.1 |
| — at 60 Hz                                                       |  | 0.85 ... 1.1 |
| • at DC                                                          |  | 0.85 ... 1.1 |

#### Auxiliary circuit:

|                                                                                              |    |                                                                                    |
|----------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|
| <b>Contact reliability of auxiliary contacts</b>                                             |    | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>Material of switching contacts</b>                                                        |    | AgSnO <sub>2</sub>                                                                 |
| <b>Operating current of auxiliary contacts</b>                                               |    |                                                                                    |
| • at AC-15                                                                                   |    |                                                                                    |
| — at 24 V                                                                                    | A  | 3                                                                                  |
| — at 250 V                                                                                   | A  | 3                                                                                  |
| • at DC-13                                                                                   |    |                                                                                    |
| — at 24 V                                                                                    | A  | 1                                                                                  |
| — at 125 V                                                                                   | A  | 0.2                                                                                |
| — at 250 V                                                                                   | A  | 0.1                                                                                |
| <b>Influence of the surrounding temperature</b>                                              |    | ±5 %                                                                               |
| <b>Power supply influence</b>                                                                |    | ±1 %                                                                               |
| <b>Test voltage for isolation test</b>                                                       | kV | 2                                                                                  |
| <b>Design of the fuse link for short-circuit protection of the auxiliary switch required</b> |    | fuse gL/gG: 4 A                                                                    |
| <b>Thermal current</b>                                                                       | A  | 5                                                                                  |
| <b>Short-time current resistance (I<sub>cw</sub>) limited to 10 ms</b>                       | A  | 10                                                                                 |
| <b>Number of NC contacts</b>                                                                 |    |                                                                                    |
| • delayed switching                                                                          |    | 0                                                                                  |
| • instantaneous contact                                                                      |    | 0                                                                                  |
| <b>Number of NO contacts</b>                                                                 |    |                                                                                    |
| • delayed switching                                                                          |    | 0                                                                                  |
| • instantaneous contact                                                                      |    | 0                                                                                  |
| <b>Number of CO contacts</b>                                                                 |    |                                                                                    |
| • delayed switching                                                                          |    | 1                                                                                  |
| • instantaneous contact                                                                      |    | 0                                                                                  |
| <b>Contact rating of auxiliary contacts according to UL</b>                                  |    | R300 / B300                                                                        |

#### Installation/ mounting/ dimensions:

|                                                    |    |                                                              |
|----------------------------------------------------|----|--------------------------------------------------------------|
| <b>Mounting type</b>                               |    | screw and snap-on mounting onto 35 mm standard mounting rail |
| <b>Width</b>                                       | mm | 22.5                                                         |
| <b>Height</b>                                      | mm | 102                                                          |
| <b>Depth</b>                                       | mm | 91                                                           |
| <b>Required spacing with side-by-side mounting</b> |    |                                                              |

|                                            |    |   |
|--------------------------------------------|----|---|
| • upwards                                  | mm | 0 |
| • forwards                                 | mm | 0 |
| • at the side                              | mm | 0 |
| • Backwards                                | mm | 0 |
| • downwards                                | mm | 0 |
| <b>Required spacing for grounded parts</b> |    |   |
| • Backwards                                | mm | 0 |
| • at the side                              | mm | 0 |
| • upwards                                  | mm | 0 |
| • forwards                                 | mm | 0 |
| • downwards                                | mm | 0 |
| <b>Required spacing for live parts</b>     |    |   |
| • downwards                                | mm | 0 |
| • Backwards                                | mm | 0 |
| • at the side                              | mm | 0 |
| • forwards                                 | mm | 0 |
| • upwards                                  | mm | 0 |

#### Connections/ Terminals:

|                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of electrical connection for auxiliary and control current circuit</b> |     | screw-type terminals                                                                                                                                                                                                                                                                                                                                             |
| <b>Product function removable terminal for auxiliary and control circuit</b>   |     | Yes                                                                                                                                                                                                                                                                                                                                                              |
| <b>Type of connectable conductor cross-sections</b>                            |     | <ul style="list-style-type: none"> <li>• solid<br/>1x (0.5 ... 4.0 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>)</li> <li>• finely stranded<br/>— with core end processing<br/>1x (0.5 ... 2.5 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>)</li> <li>• at AWG conductors<br/>— stranded<br/>2x (20 ... 14)</li> <li>— solid<br/>2x (20 ... 14)</li> </ul> |
| <b>Tightening torque</b>                                                       | N·m | 0.8 ... 1.2                                                                                                                                                                                                                                                                                                                                                      |
| <b>Design of the thread of the connection screw</b>                            |     | M3                                                                                                                                                                                                                                                                                                                                                               |

#### Certificates/approvals

| General Product Approval                                                                 |                                                                                          |                                                                                         |                                                                                   | Declaration of<br>Conformity                                                                    | Test<br>Certificates                                   |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <br>CCC | <br>CSA | <br>UL |  | <br>EG-Konf. | <a href="#">spezielle<br/>Prüfbescheinigunge<br/>n</a> |

| Shipping Approval                                                                                      |                                                                                          |                                                                                         |                                                                                          |                                                                                            |                                                                                             |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>BUREAU<br>VERITAS | <br>DNV | <br>GL | <br>LRS | <br>PRS | <br>RINA |

| Shipping<br>Approval                                                                      | other                   |                               |                                   |  |
|-------------------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------|--|
| <br>RMRS | <a href="#">sonstig</a> | <a href="#">Bestätigungen</a> | <a href="#">Umweltbestätigung</a> |  |

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP1531-1AP30>

##### Cax online generator

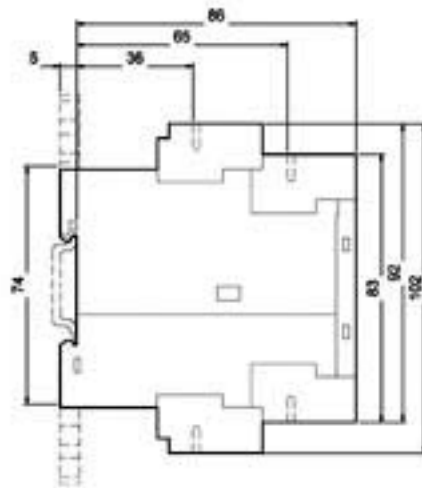
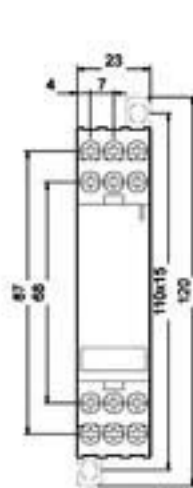
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1531-1AP30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP1531-1AP30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP1531-1AP30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1531-1AP30&lang=en)



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