



Timing relay, Multifunction Phased-out product !!! For further information, please contact our sales department 2 change-over contacts, 16 functions 15 time ranges (0.05 s-100 h) 24 V 200-240 V AC and 24 V DC at 50/60 Hz AC with LED, Screw terminal

|   |                        |
|---|------------------------|
| <b>product brand name</b>   | SIRIUS                 |
| <b>product designation</b>  | timing relay           |
| <b>product type designation</b>   | 3RP15                  |
| <b>General technical data</b>   |                        |
| <b>product component</b>  |                        |
| • relay output  | Yes                    |
| • semi-conductor output   | No                     |
| <b>product extension required remote control</b>  | No                     |
| <b>product extension optional remote control</b>  | No                     |
| <b>power loss [W] maximum</b>   | 2 W                    |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V                  |
| <b>test voltage for isolation test</b>  | 2 kV                   |
| <b>degree of pollution</b>  | 3                      |
| <b>surge voltage resistance rated value</b>   | 4 000 V                |
| <b>protection class IP</b>  | IP20                   |
| shock resistance acc. to IEC 60068-2-27   | 11g / 15 ms            |
| vibration resistance acc. to IEC 60068-2-6  | 10 ... 55 Hz / 0.35 mm |
| mechanical service life (operating cycles) typical  | 10 000 000             |
| electrical endurance (switching cycles) at AC-15 at 230 V typical   | 100 000                |
| <b>adjustable time</b>  | 0.05 s ... 100 h       |
| <b>relative setting accuracy relating to full-scale value</b>   | 5 %                    |
| <b>thermal current</b>  | 5 A                    |
| <b>minimum ON period</b>  | 35 ms                  |
| <b>recovery time</b>  | 150 ms                 |
| <b>reference code acc. to IEC 81346-2</b>   | K                      |
| <b>relative repeat accuracy</b>   | 1 %                    |
| Substance Prohibitance (Date)   | 28.05.2009 00:00:00    |
| <b>Control circuit/ Control</b>   |                        |
| <b>type of voltage of the control supply voltage</b>  | AC/DC                  |
| <b>control supply voltage 1 at AC</b>   |                        |
| • at 50 Hz rated value  | 24 V                   |
| • at 60 Hz rated value  | 24 V                   |
| <b>control supply voltage 2 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>control supply voltage 1</b>   |                 |
| • at DC rated value   | 24 V            |
| <b>operating range factor control supply voltage rated value at DC</b>                |                 |
| • initial value   | 0.85            |
| • full-scale value  | 1.1             |
| <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            |
| • full-scale value  | 1.1             |
| <b>Switching Function</b>   |                 |
| <b>switching function</b>   |                 |
| • ON-delay  | Yes             |
| • ON-delay/instantaneous contact  | Yes             |
| • passing make contact  | Yes             |
| • passing make contact/instantaneous contact  | Yes             |
| • OFF delay   | No              |
| <b>switching function</b>   |                 |
| • flashing symmetrically with interval start/instantaneous                            | Yes             |
| • flashing symmetrically with interval start  | Yes             |
| • 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              |
| <b>switching function</b>   |                 |
| • star-delta circuit with delay time  | No              |
| • star-delta circuit  | Yes             |
| <b>switching function with control signal</b>   |                 |
| • additive ON-delay   | Yes             |
| • passing break contact   | Yes             |
| • passing break contact/instantaneous   | Yes             |
| • OFF delay   | Yes             |
| • OFF delay/instantaneous   | Yes             |
| • pulse delayed   | No              |
| • pulse delayed/instantaneous   | No              |
| • pulse-shaping   | Yes             |
| • pulse-shaping/instantaneous   | Yes             |
| • additive ON-delay/instantaneous   | Yes             |
| • ON-delay/OFF-delay/instantaneous  | Yes             |
| • passing make contact  | No              |
| • passing make contact/instantaneous contact  | No              |
| <b>switching function of interval relay with control signal</b>                       |                 |
| • 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              |
| <b>design of the control terminal non-floating</b>                                    | Yes             |
| <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>   | AgSnO2          |

|   |  |
|---|--|
| number of NC contacts delayed switching                               | 0  |
| number of NO contacts delayed switching                               | 0  |
| number of CO contacts delayed switching                               | 2  |
| <b>operational current of auxiliary contacts at AC-15</b>             |  |
| • at 24 V   | 3 A  |
| • at 250 V  | 3 A  |
| <b>operational current of auxiliary contacts at DC-13</b>             |  |
| • at 24 V   | 1 A  |
| • at 125 V  | 0.2 A  |
| • at 250 V  | 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>influence of the surrounding temperature</b>                       | ±5 %   |
| <b>power supply influence</b>   | ±1 %   |
| <b>Inputs/ Outputs</b>  |  |
| <b>product function</b>   |  |
| • non-volatile  | No   |
| <b>Electromagnetic compatibility</b>                                  |  |
| EMC immunity acc. to IEC 61812-1                                      | EN 61000-6-2   |
| <b>conducted interference</b>   |  |
| • due to burst acc. to IEC 61000-4-4                                  | 2 kV network connection / 1 kV control connection                                  |
| • due to conductor-earth surge acc. to IEC 61000-4-5                  | 2 kV   |
| • due to conductor-conductor surge acc. to IEC 61000-4-5              | 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>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 | Yes  |
| type of electrical connection for auxiliary and control circuit       | screw-type terminals   |
| <b>type of connectable conductor cross-sections</b>                   |  |
| • solid   | 1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )               |
| • finely stranded with core end processing                            | 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )               |
| • at AWG cables solid   | 2x (20 ... 14)   |
| • at AWG cables stranded  | 2x (20 ... 14)   |
| <b>connectable conductor cross-section</b>                            |  |
| • solid   | 0.5 ... 4 mm <sup>2</sup>  |
| • finely stranded with core end processing                            | 0.5 ... 2.5 mm <sup>2</sup>  |
| <b>AWG number as coded connectable conductor cross section</b>        |  |
| • solid   | 20 ... 14  |
| • stranded  | 20 ... 14  |
| <b>tightening torque</b>  | 0.8 ... 1.2 N·m  |
| <b>design of the thread of the connection screw</b>                   | M3   |
| <b>Installation/ mounting/ dimensions</b>                             |  |
| <b>mounting position</b>  | any  |
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm standard mounting rail                       |
| <b>height</b>   | 102 mm   |
| <b>width</b>  | 22.5 mm  |
| <b>depth</b>  | 91 mm  |
| <b>required spacing</b>   |  |
| • with side-by-side mounting  |  |
| — forwards  | 0 mm   |

|                      |      |
|----------------------|------|
| — backwards          | 0 mm |
| — upwards            | 0 mm |
| — downwards          | 0 mm |
| — at the side        | 0 mm |
| • for grounded parts |      |
| — forwards           | 0 mm |
| — backwards          | 0 mm |
| — upwards            | 0 mm |
| — at the side        | 0 mm |
| — downwards          | 0 mm |
| • for live parts     |      |
| — forwards           | 0 mm |
| — backwards          | 0 mm |
| — upwards            | 0 mm |
| — downwards          | 0 mm |
| — at the side        | 0 mm |

#### Ambient conditions

|   |                |
|---|----------------|
| installation altitude at height above sea level maximum | 2 000 m        |
| <b>ambient temperature</b>                              |                |
| • during operation                                      | -25 ... +60 °C |
| • during storage  | -40 ... +85 °C |
| • during transport                                      | -40 ... +85 °C |
| relative humidity during operation                      | 10 ... 95 %    |

#### Certificates/ approvals

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



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

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



|                   |       |         |
|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
|-------------------|-------|---------|



[Miscellaneous](#)

[Confirmation](#)

[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=3RP1505-1BP30>

Cax online generator

<http://support.automation.siemens.com/WWW/CAXorder/default.aspx?lang=en&mlfb=3RP1505-1BP30>

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

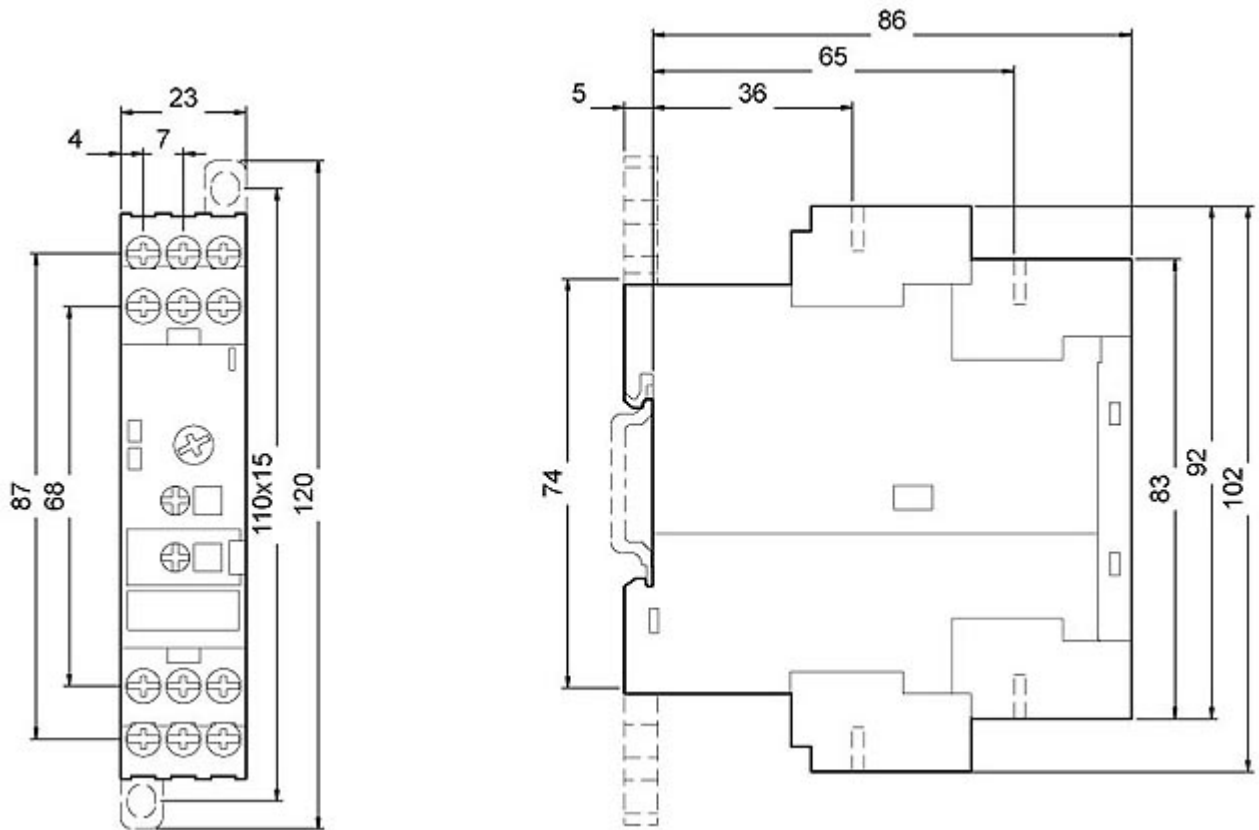
<https://support.industry.siemens.com/cs/ww/en/ps/3RP1505-1BP30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP1505-1BP30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1505-1BP30&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RP1505-1BP30/manual>



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