

Timing relay, electronic Phased-out product !!! For further information, please contact our sales department with star-delta (wye-delta) function 1 NO contact, delayed 1 NO contact, instantaneous 1 time range 1...20 s 24 V AC/DC and 200...240 V AC at 50/60 Hz AC screw terminal



product brand name	SIRIUS
product designation	timing relay
product type designation	3RP15

General technical data	
<ul style="list-style-type: none"> <li>product component relay output</li> </ul>	Yes
<ul style="list-style-type: none"> <li>product component semi-conductor output</li> </ul>	No
product extension required remote control	No
product extension optional remote control	No
<ul style="list-style-type: none"> <li>— insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value</li> </ul>	300 V
Test voltage for isolation test	2 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
<ul style="list-style-type: none"> <li>protection class IP</li> </ul>	IP20
<ul style="list-style-type: none"> <li>shock resistance acc. to IEC 60068-2-27</li> </ul>	11g / 15 ms
<ul style="list-style-type: none"> <li>vibration resistance acc. to IEC 60068-2-6</li> </ul>	10 ... 55 Hz / 0.35 mm

<ul style="list-style-type: none"> <li>mechanical service life (switching cycles) typical</li> </ul>	10 000 000
<ul style="list-style-type: none"> <li>Electrical endurance (switching cycles) at AC-15 at 230 V typical</li> </ul>	100 000
<b>adjustable time</b>	1 ... 20 s
<b>Relative setting accuracy relating to full-scale value</b>	5 %
<b>thermal current</b>	5 A
<ul style="list-style-type: none"> <li>recovery time</li> </ul>	150 ms
<b>reference code acc. to DIN EN 81346-2</b>	K
<b>relative repeat accuracy</b>	1 %

### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	AC/DC
<b>Control supply voltage 1 at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>at 60 Hz rated value</li> </ul>	24 V
<b>Control supply voltage 2 at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> </ul>	200 ... 240 V
<ul style="list-style-type: none"> <li>at 60 Hz</li> </ul>	200 ... 240 V
<b>control supply voltage frequency 1</b>	50 ... 60 Hz
<b>Control supply voltage 1</b>	
<ul style="list-style-type: none"> <li>at DC rated value</li> </ul>	24 V
<b>operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>initial value</li> </ul>	0.85
<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>	0.85
<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>	0.85
<ul style="list-style-type: none"> <li>full-scale value</li> </ul>	1.1

### Switching Function

<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 starting with interval/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• flashing symmetrically starting with interval</li> </ul>	No
<ul style="list-style-type: none"> <li>• flashing symmetrically starting with pulse/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• flashing symmetrically starting with pulse</li> </ul>	No
<ul style="list-style-type: none"> <li>• flashing asymmetrically starting with interval</li> </ul>	No
<ul style="list-style-type: none"> <li>• flashing asymmetrically starting with pulse</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
<ul style="list-style-type: none"> <li>• Switching function with control signal additive ON delay</li> </ul>	No
<ul style="list-style-type: none"> <li>• switching function with control signal passing break contact</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal passing break contact/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal OFF delay</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal OFF delay/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal pulse delayed</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal pulse delayed/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• switching function with control signal pulse-shaping</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal pulse-shaping/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal additive ON delay/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal passing make contact</li> </ul>	No
<ul style="list-style-type: none"> <li>• Switching function with control signal 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 activated control signal</li> </ul>	No
<ul style="list-style-type: none"> <li>• retrotriggerable with activated control signal/instantaneous contact</li> </ul>	No
<ul style="list-style-type: none"> <li>• retriggerable with deactivated control signal</li> </ul>	No

Short-circuit protection	
<ul style="list-style-type: none"> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 4 A
Auxiliary circuit	
<b>Material of switching contacts</b>	AgSnO <sub>2</sub>
<ul style="list-style-type: none"> <li>number of NC contacts delayed switching</li> </ul>	0
<ul style="list-style-type: none"> <li>number of NO contacts delayed switching</li> </ul>	1
<ul style="list-style-type: none"> <li>number of CO contacts delayed switching</li> </ul>	0
<b>operating 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>operating 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>influence of the surrounding temperature</b>	±5 %
<b>Power supply influence</b>	±1 %
Inputs/ Outputs	
<ul style="list-style-type: none"> <li>Product function non-volatile</li> </ul>	No
Electromagnetic compatibility	
<b>EMI immunity</b>	
<ul style="list-style-type: none"> <li>acc. to IEC 61812-1</li> </ul>	EN 61000-6-2
<ul style="list-style-type: none"> <li>conducted interference due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul style="list-style-type: none"> <li>Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
<b>field-bound parasitic coupling 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
Safety related data	
<b>protection against electrical shock</b>	finger-safe
<b>Type of insulation</b>	Basic insulation
<b>category acc. to EN 954-1</b>	none
Connections/ Terminals	
<ul style="list-style-type: none"> <li>product function removable terminal for auxiliary and control circuit</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• type of electrical connection for auxiliary and control current circuit</li> </ul>	screw-type terminals
<ul style="list-style-type: none"> <li>• type of connectable conductor cross-sections solid</li> </ul>	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• Type of connectable conductor cross-sections finely stranded with core end processing</li> </ul>	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• Type of connectable conductor cross-sections at AWG conductors solid</li> </ul>	2x (20 ... 14)
<ul style="list-style-type: none"> <li>• type of connectable conductor cross-sections at AWG conductors stranded</li> </ul>	2x (20 ... 14)
<ul style="list-style-type: none"> <li>• connectable conductor cross-section solid</li> </ul>	0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• connectable conductor cross-section finely stranded with core end processing</li> </ul>	0.5 ... 2.5 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	20 ... 14
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	20 ... 14
<b>tightening torque</b>	0.8 ... 1.2 N·m
<b>design of the thread of the connection screw</b>	M3

#### Installation/ mounting/ dimensions

<ul style="list-style-type: none"> <li>• <b>mounting position</b></li> </ul>	any
<ul style="list-style-type: none"> <li>• <b>mounting type</b></li> </ul>	screw and snap-on mounting onto 35 mm standard mounting rail
<b>height</b>	83 mm
<b>width</b>	22.5 mm
<b>depth</b>	91 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> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm
<ul style="list-style-type: none"> <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> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm
<ul style="list-style-type: none"> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> </ul> </li> </ul>	0 mm 0 mm 0 mm

- downwards
- at the side

0 mm  
0 mm

### Ambient conditions

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

### Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other	Railway
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[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=3RP1574-1NP30>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1574-1NP30>

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

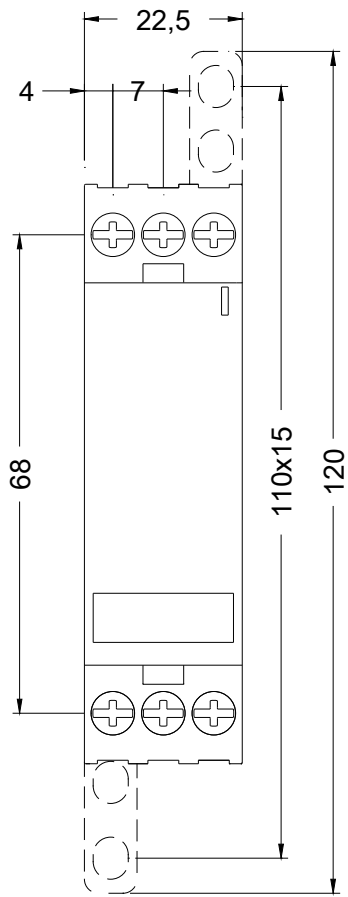
<https://support.industry.siemens.com/cs/ww/en/ps/3RP1574-1NP30>

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

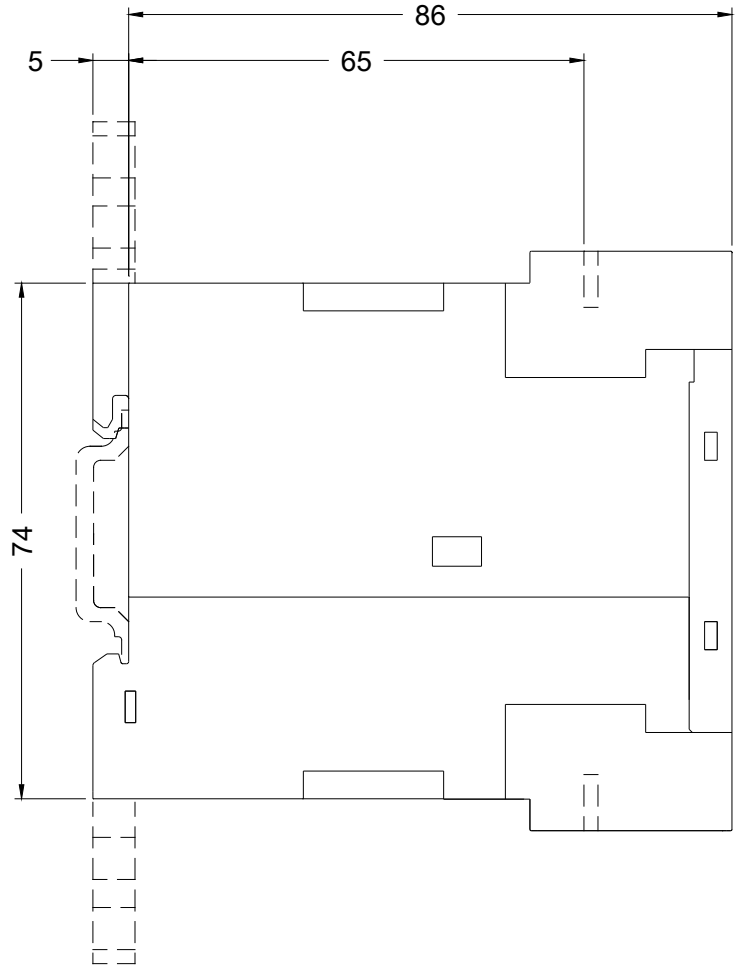
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP1574-1NP30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1574-1NP30&lang=en)

**Characteristic: Derating**

<https://support.industry.siemens.com/cs/ww/en/ps/3RP1574-1NP30/manual>



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