

Timing relay, Multifunction Phased-out product !!! For further information, please contact our sales department Spring-type terminal 1 change-over contact, ansprechverzögert 0.05 s...100 h 24 V AC/DC/200...240 V AC at 50/60 Hz AC



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

General technical data

Product component	
• Relay output	Yes
• semi-conductor output	No
Product extension required remote control	No
Product extension optional remote control	No
• — 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 kV
Degree of pollution	3
Surge voltage resistance rated value	4 000 V
• Protection class IP	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 (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
adjustable time	0.05 s ... 100 h
Relative setting accuracy relating to full-scale value	5 %
thermal current	5 A
• recovery time	150 ms
Reference code acc. to DIN EN 81346-2	K
relative repeat accuracy	1 %

Control circuit/ Control

Type of voltage of the control supply voltage	AC/DC
Control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
Control supply voltage 2 at AC	
• at 50 Hz	200 ... 240 V
• at 60 Hz	200 ... 240 V
control supply voltage frequency 1	50 ... 60 Hz
Control supply voltage 1	
• at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1

Switching Function

• switching function ON-delay	Yes
• switching function ON-delay/instantaneous contact	No
• switching function passing make contact	No
• switching function passing make contact/instantaneous contact	No

• Switching function OFF delay	No
Switching function	
• flashing symmetrically starting with interval/instantaneous	No
• flashing symmetrically starting with interval	No
• flashing symmetrically starting with pulse/instantaneous	No
• flashing symmetrically starting with pulse	No
• flashing asymmetrically starting with interval	No
• flashing asymmetrically starting with pulse	No
Switching function	
• star-delta circuit with delay time	No
• star-delta circuit	No
• Switching function with control signal additive ON delay	No
• Switching function with control signal passing break contact	No
• Switching function with control signal passing break contact/instantaneous	No
• Switching function with control signal OFF delay	No
• Switching function with control signal OFF delay/instantaneous	No
• Switching function with control signal pulse delayed	No
• Switching function with control signal pulse delayed/instantaneous	No
• switching function with control signal pulse-shaping	No
• Switching function with control signal pulse-shaping/instantaneous	No
• Switching function with control signal additive ON delay/instantaneous	No
• Switching function with control signal ON-delay/OFF-delay/instantaneous	No
• Switching function with control signal passing make contact	No
• Switching function with control signal passing make contact/instantaneous contact	No
Switching function of interval relay with control signal	
• retrotriggerable with deactivated control signal/instantaneous contact	No
• retrotriggerable with activated control signal	No

- retrotriggerable with activated control signal/instantaneous contact
- retriggerable with deactivated control signal

No

No

Short-circuit protection

Design of the fuse link

- for short-circuit protection of the auxiliary switch required

fuse gL/gG: 4 A

Auxiliary circuit

Material of switching contacts

AgSnO2

Number of NC contacts

- delayed switching

0

Number of NO contacts

- delayed switching

0

Number of CO contacts

- delayed switching
- operating current of auxiliary contacts at AC-15 at 24 V
- operating current of auxiliary contacts at AC-15 at 250 V
- operating current of auxiliary contacts at DC-13 at 24 V
- operating current of auxiliary contacts at DC-13 at 125 V
- operating current of auxiliary contacts at DC-13 at 250 V

1

3 A

3 A

1 A

0.2 A

0.1 A

operating frequency with 3RT2 contactor maximum

5 000 1/h

contact reliability of auxiliary contacts

one incorrect switching operation of 100 million switching operations (17 V, 5 mA)

Contact rating of auxiliary contacts according to UL

R300 / B300

influence of the surrounding temperature

±5 %

Power supply influence

±1 %

Inputs/ Outputs

- Product function non-volatile

No

Electromagnetic compatibility

EMI immunity

- acc. to IEC 61812-1

EN 61000-6-2

Conducted interference

- due to burst acc. to IEC 61000-4-4
- due to conductor-earth surge acc. to IEC 61000-4-5
- due to conductor-conductor surge acc. to IEC 61000-4-5

2 kV network connection / 1 kV control connection

2 kV

1 kV

Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
Protection against electrical shock	finger-safe
Type of insulation	Basic insulation
Category acc. to EN 954-1	none
Connections/ Terminals	
Product function	
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 	Yes
<ul style="list-style-type: none"> Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals
<ul style="list-style-type: none"> type of connectable conductor cross-sections solid 	2x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections finely stranded with core end processing 	2 x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections finely stranded without core end processing 	2x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections at AWG conductors solid 	2x (24 ... 16)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections at AWG conductors stranded 	2x (24 ... 16)
<ul style="list-style-type: none"> connectable conductor cross-section solid 	0.25 ... 1.5 mm ²
<ul style="list-style-type: none"> connectable conductor cross-section finely stranded with core end processing 	0.25 ... 1.5 mm ²
<ul style="list-style-type: none"> connectable conductor cross-section finely stranded without core end processing 	0.25 ... 1.5 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> solid 	24 ... 16
<ul style="list-style-type: none"> stranded 	24 ... 16
Installation/ mounting/ dimensions	
<ul style="list-style-type: none"> mounting position 	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	84 mm
Width	22.5 mm
Depth	91 mm
Required spacing	
<ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards 	0 mm 0 mm 0 mm 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
Ambient temperature	
• 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	
 CCC	 CSA	 UL		 RCM	 EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping			
Miscellaneous	Type Test Certificates/Test Report	 BUREAU VERITAS	 LRS	 PRS	 RINA

Marine / Shipping	other	Railway	
 RMRS	 DNV-GL DNVGL.COM/AF	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=3RP1525-2AP30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1525-2AP30>

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

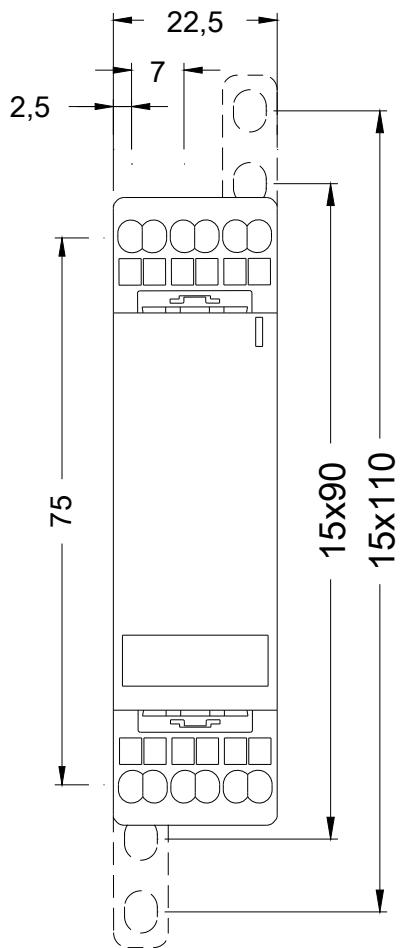
<https://support.industry.siemens.com/cs/ww/en/ps/3RP1525-2AP30>

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

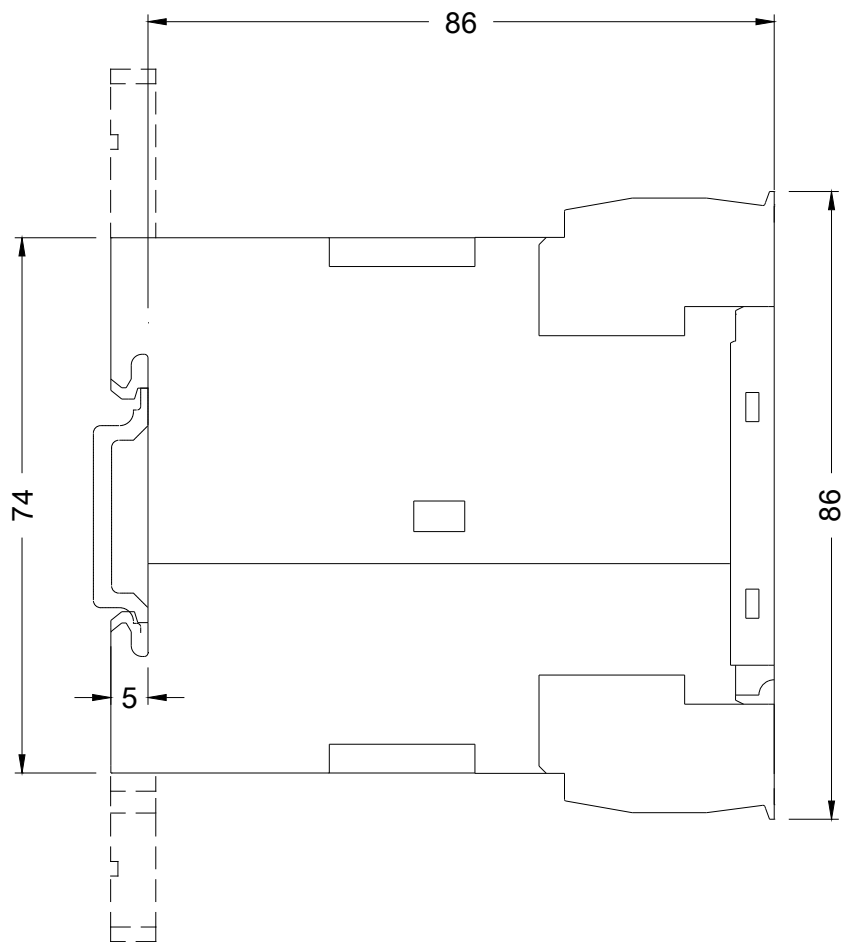
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1525-2AP30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RP1525-2AP30/manual>



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