## **SIEMENS**

Data sheet 3RP2527-2EW30



Timing relay, electronic ansprechverzögert 1 NO (semiconductor) 2-wire 4 time ranges 0.05...240 s 12-240 V AC/DC Spring-type terminal (push-in)

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
<ul> <li>relay output</li> </ul>	No
semi-conductor output	Yes
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
test voltage for isolation test	2.5 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according 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	0.05 240 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	0.6 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 (Date)	09/12/2014
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● at 50 Hz	12 240 V
● at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
• at DC	12 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.8

e full cools value	11
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	1.1
value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
inrush current peak	
• at 24 V	0.1 A
• at 240 V	1 A
duration of inrush current peak	
• at 24 V	0.01 ms
• at 240 V	0.04 ms
Switching Function	
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact     passing make contact     passing make contact	No
OFF delay	No
switching function	
flashing symmetrically with interval	No
start/instantaneous	
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
flashing symmetrically with pulse	No
start/instantaneous	
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
flashing asymmetrically with pulse start	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
star-delta circuit	No
switching function with control signal	
<ul> <li>additive ON-delay</li> </ul>	No
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
<ul> <li>OFF delay/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> </ul>	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul><li>pulse-shaping</li></ul>	No
<ul><li>pulse-shaping/instantaneous</li></ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control</li> </ul>	No
signal/instantaneous contact	
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control</li> </ul>	No
signal/instantaneous contact	No
retriggerable with deactivated control signal	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
auxiliary switch required	
Auxiliary circuit	
number of NC contacts	0
<ul> <li>delayed switching</li> </ul>	0

instantanessa (c. C	
• instantaneous contact	0
number of NO contacts	
delayed switching	1
instantaneous contact	0
number of CO contacts	
<ul><li>delayed switching</li></ul>	0
instantaneous contact	0
operating frequency with 3RT2 contactor maximum	5 000 1/h
switching capacity current with inductive load	0.01 0.6 A
Inputs/ Outputs	
product function	
<ul> <li>at the relay outputs switchover delayed/without</li> </ul>	No
delay	
non-volatile	No
residual current maximum	5 mA
Electromagnetic compatibility	
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
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	40.1//
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front according to IEC	IP20
60529	
category according to EN 954-1	none
0 (: /= :	
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
product component removable terminal for auxiliary and control circuit	
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	Yes spring-loaded terminals (push-in)
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid	spring-loaded terminals (push-in)  0.5 4 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • finely stranded without core end processing	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²
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product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 20 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 12 20 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 12
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm²
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 100 12
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm²
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 100 12
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²  2 o 12  2 o 12  2 o 12  2 o 12  2 o 15  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm  17.5 mm 90 mm
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²  20 12  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 17.5 mm 90 mm
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12  20 12  100 12  20 12  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 17.5 mm 90 mm  0 mm 0 mm
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²  20 12  20 12  20 12  20 12  0 12  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 17.5 mm 90 mm  0 mm 0 mm 0 mm
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections	spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12  20 12  100 12  20 12  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 17.5 mm 90 mm  0 mm 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 -25 ... +60 °C during operation -40 ... +85 °C • during storage • during transport -40 ... +85 °C relative humidity during operation 10 ... 95 % Certificates/ approvals **Declaration of** 

**General Product Approval** 

Confirmation







**EMC** 



Conformity

**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

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=3RP2527-2EW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2527-2EW30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-2EW30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2527-2EW30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-2EW30/manual

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