



Timing relay, electronic on-delay 2 change-over contacts, 7 time ranges 0.05 s...100 h 12-240 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (Push-In)

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
<b>General technical data</b>	
product component	
• relay output	Yes
• semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.5 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
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating 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	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
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
<b>Control circuit/ Control</b>	
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	

<b>DC</b>	• initial value	0.8
	• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	• initial value	0.8
	• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	• initial value	0.8
	• full-scale value	1.1
<b>inrush current peak</b>	• at 24 V	0.3 A
	• at 240 V	5 A
<b>duration of inrush current peak</b>	• at 24 V	0.3 ms
	• at 240 V	0.5 ms
<b>Switching Function</b>		
<b>switching function</b>	• ON-delay	Yes
	• ON-delay/instantaneous contact	No
	• passing make contact	No
	• passing make contact/instantaneous contact	No
	• OFF delay	No
<b>switching function</b>	• flashing symmetrically with interval start/instantaneous	No
	• flashing symmetrically with interval start	No
	• 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	No
<b>switching function with control signal</b>	• additive ON-delay	No
	• passing break contact	No
	• passing break contact/instantaneous	No
	• OFF delay	No
	• OFF delay/instantaneous	No
	• pulse delayed	No
	• pulse delayed/instantaneous	No
	• pulse-shaping	No
	• pulse-shaping/instantaneous	No
	• additive ON-delay/instantaneous	No
	• ON-delay/OFF-delay/instantaneous	No
	• 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
	• retriggeable with deactivated control signal	No
<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
<b>number of NC contacts</b>		
	• delayed switching	0

<ul style="list-style-type: none"> <li>instantaneous contact</li> </ul>	0
<b>number of NO contacts</b>	
<ul style="list-style-type: none"> <li>delayed switching</li> </ul>	0
<ul style="list-style-type: none"> <li>instantaneous contact</li> </ul>	0
<b>number of CO contacts</b>	
<ul style="list-style-type: none"> <li>delayed switching</li> </ul>	2
<ul style="list-style-type: none"> <li>instantaneous contact</li> </ul>	0
<b>operational 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>operational 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>switching capacity current with inductive load</b>	0.01 ... 3 A
<b>Inputs/ Outputs</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>at the relay outputs switchover delayed/without delay</li> </ul>	No
<ul style="list-style-type: none"> <li>non-volatile</li> </ul>	No
<b>Electromagnetic compatibility</b>	
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
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul style="list-style-type: none"> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	4 kV contact discharge / 8 kV air discharge
<b>Safety related data</b>	
category according to EN 954-1	none
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>type of insulation</b>	Basic insulation
<b>Connections/ Terminals</b>	
<b>product component removable terminal for auxiliary and control circuit</b>	Yes
type of electrical connection for auxiliary and control circuit	spring-loaded terminals (push-in)
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>solid</li> </ul>	0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded with core end processing</li> </ul>	0.5 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded without core end processing</li> </ul>	0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>for AWG cables solid</li> </ul>	20 ... 12
<ul style="list-style-type: none"> <li>for AWG cables stranded</li> </ul>	20 ... 12
<b>connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>solid</li> </ul>	0.5 ... 4 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded with core end processing</li> </ul>	0.5 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded without core end processing</li> </ul>	0.5 ... 4 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 ... 12
<ul style="list-style-type: none"> <li>stranded</li> </ul>	20 ... 12
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting onto 35 mm DIN rail
<b>height</b>	100 mm
<b>width</b>	22.5 mm
<b>depth</b>	90 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

<b>Ambient conditions</b>	
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 %

<b>Approvals Certificates</b>	
<b>General Product Approval</b>	



[Confirmation](#)



EMV	Test Certificates	Marine / Shipping
	<a href="#">KC</a>	<a href="#">Type Test Certificates/Test Report</a>

Marine / Shipping	other	Environment
	<a href="#">Confirmation</a>	<a href="#">Environmental Confirmations</a>

<b>Further information</b>	
Information on the packaging	
<a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>	
Information- and Downloadcenter (Catalogs, Brochures,...)	
<a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>	
Industry Mall (Online ordering system)	
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-2BW30">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-2BW30</a>	
Cax online generator	
<a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RP2525-2BW30">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RP2525-2BW30</a>	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)	
<a href="https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BW30">https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BW30</a>	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)	
<a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-2BW30&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-2BW30&amp;lang=en</a>	
Characteristic: Derating	
<a href="https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BW30/manual">https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BW30/manual</a>	



