# SIEMENS

#### Data sheet

### 3RP2512-1AW30



Timing relay, electronic slow-operating 1 change-over contact, 1 time range 1.5...30 s 12-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

Dir Bert	
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>	Yes
<ul> <li>semi-conductor output</li> </ul>	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
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 (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	1 30 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code according to IEC 81346-2	К
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 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
Weight	0.135 kg
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
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
	0.0
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
	1.1
inrush current peak	0.4.4
• at 24 V	0.4 A
• at 240 V	5 A
duration of inrush current peak	
• at 24 V	0.3 ms
• at 240 V	0.5 ms
Switching Function	
switching function	
ON-delay	Yes
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
star-delta circuit	No
switching function with control signal	
additive ON-delay	No
passing break contact	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
• OFF delay	No
OFF delay/instantaneous	No
pulse delayed	No
pulse delayed/instantaneous	No
<ul> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</li> </ul>	No
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> </ul>	No
additive ON-delay/instantaneous     ON delay/OFE delay/instantaneous	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
retrotriggerable with deactivated control signal/instantaneous contact	No
retrotriggerable with switched-on control signal	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
retriggerable with deactivated control signal	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		
instantaneous contact	0		
number of NO contacts			
<ul> <li>delayed switching</li> </ul>	0		
instantaneous contact	0		
number of CO contacts			
<ul> <li>delayed switching</li> </ul>	1		
<ul> <li>instantaneous contact</li> </ul>	0		
operational current of auxiliary contacts at AC-15			
• at 24 V	3 A		
• at 250 V	3 A		
operational current of auxiliary contacts at DC-13			
• at 24 V	1 A		
• at 125 V	0.2 A		
• at 250 V	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		
switching capacity current with inductive load	0.01 3 A		
Inputs/ Outputs			
product function	No		
<ul> <li>at the relay outputs switchover delayed/without delay</li> <li>non volatile</li> </ul>	No		
non-volatile  Electromagnetic compatibility	No		
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		
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV		
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 KV		
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			
category according to EN 954-1	none		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
type of insulation	Basic insulation		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )		
<ul> <li>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)		
for AWG cables stranded	1x (20 12), 2x (20 14)		
connectable conductor cross-section			
solid	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>		
AWG number as coded connectable conductor cross			
section			
Section			
• solid	20 12		
	20 12 20 14		
• solid			
<ul><li>solid</li><li>stranded</li></ul>	20 14		
solid     stranded tightening torque	20 14 0.6 0.8 N·m		
<ul> <li>solid</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> </ul>	20 14 0.6 0.8 N·m		
solid     stranded     tightening torque     design of the thread of the connection screw Installation/ mounting/ dimensions	20 14 0.6 0.8 N·m M3		
solid     stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position	20 14 0.6 0.8 N·m M3 any		
solid     stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method	20 14 0.6 0.8 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail		

depth		90	mm			
required spacing						
<ul> <li>with side-by-side</li> </ul>	e mounting					
— forwards		0 n	ım			
— backwards		0 n	nm			
— upwards		0 n	าทา			
- downwards	S	0 n	าm			
— at the side		0 n	าท			
<ul> <li>for grounded particular</li> </ul>	rts					
— forwards		0 n	ım			
- backwards		0 n	ım			
— upwards		0 n				
— at the side		0 n				
— downwards		0 n				
<ul> <li>for live parts</li> </ul>	5	011				
<ul> <li>for live parts</li> <li>forwards</li> </ul>		0 n	200			
— backwards		0 n				
— upwards		0 n				
- downwards		0 n				
— at the side		0 n	าท			
mbient conditions	· · · · · · · · · · · · · · · · · · ·			_	_	
	eight above sea level ma	ximum 2 0	00 m			
ambient temperature						
<ul> <li>during operation</li> </ul>	1		+60 °C			
<ul> <li>during storage</li> </ul>			-40 +85 °C			
<ul> <li>during transport</li> </ul>			+85 °C			
relative humidity during	g operation	10	95 %			
pprovals Certificates						
General Product App	oroval				EMV	
	UK CA	CE EG-Konf.		EHC	RCM	
EMV	Test Certificates	Marine / Shipping				
KC	<u>Type Test Certific-</u> <u>ates/Test Report</u>	B U REAU VERITAS		Lloyd's Register urs	PRS	
Marine / Shipping		other	Environment			
	KMRS	<u>Confirmation</u>	Environmental Con- firmations			
urther information						

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2512-1AW30

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2512-1AW30

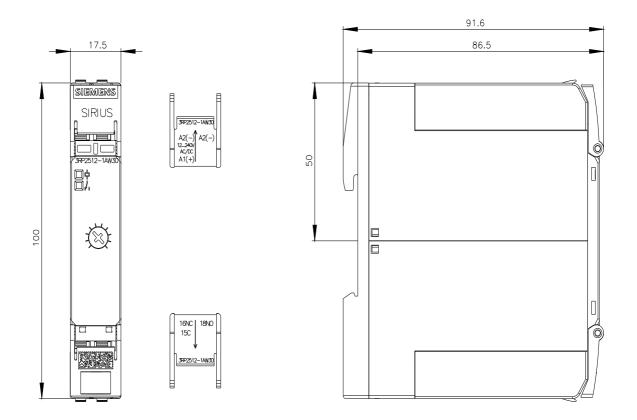
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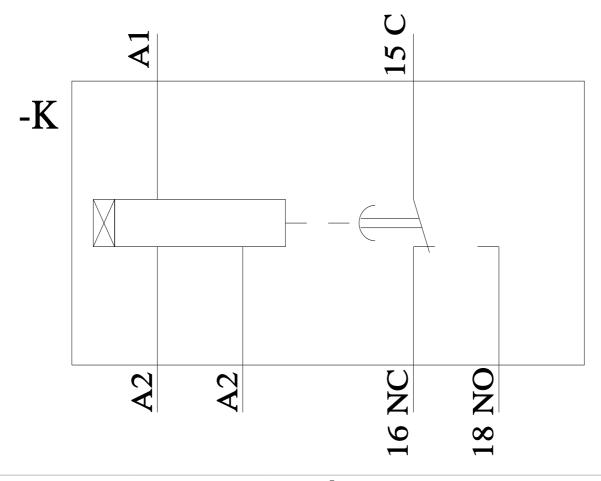
https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2512-1AW30&lang=en

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